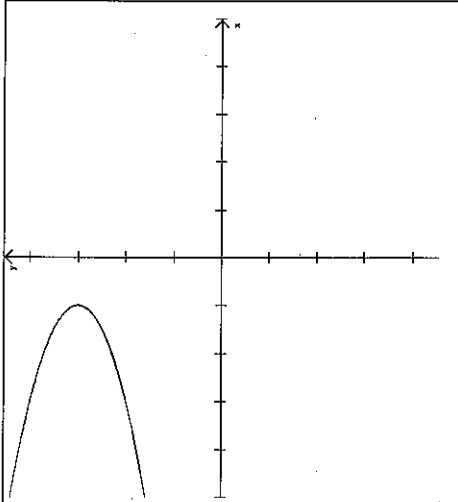
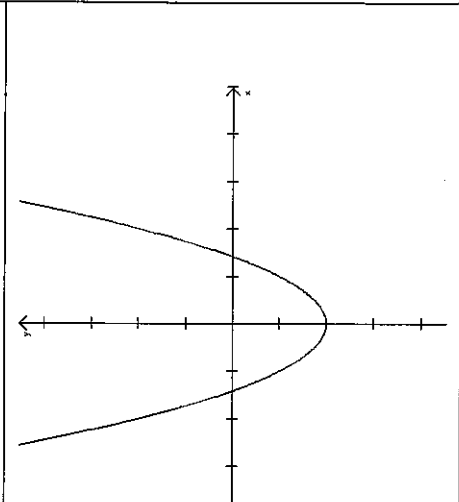
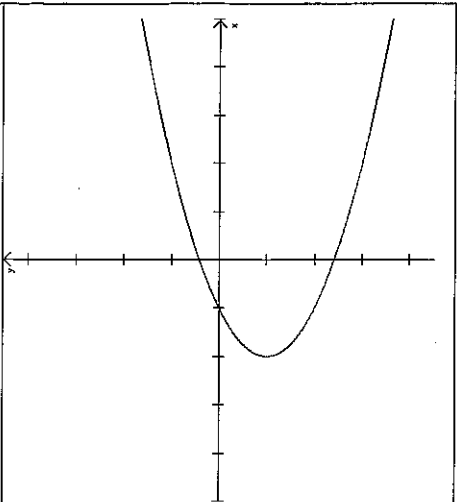


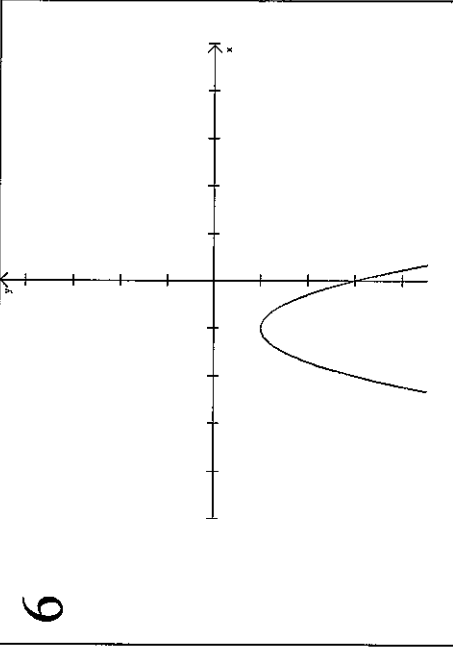

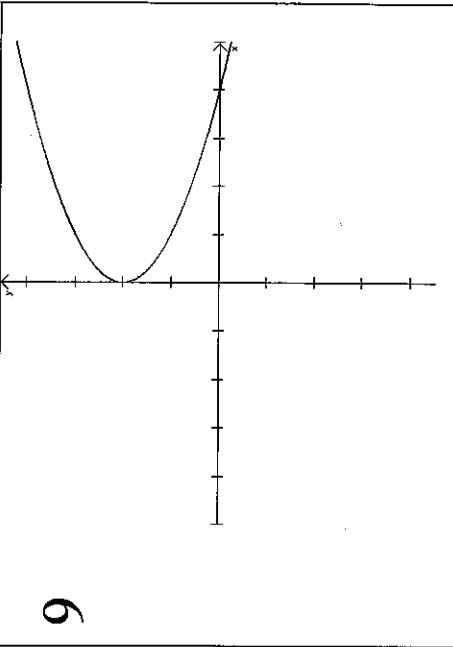

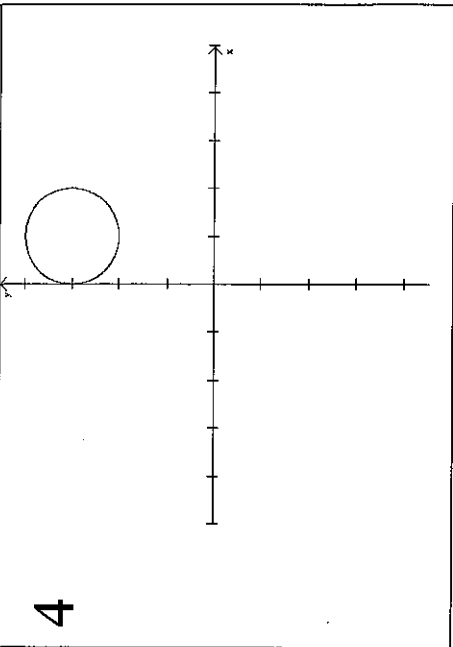
Conic Cards


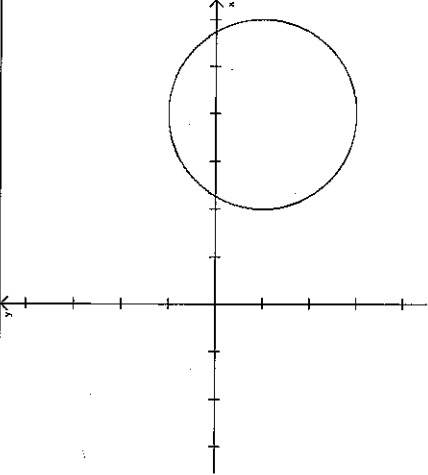

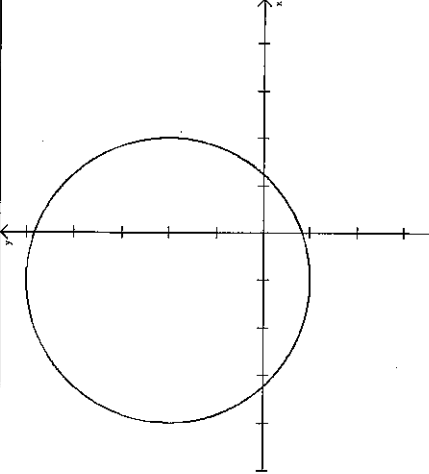

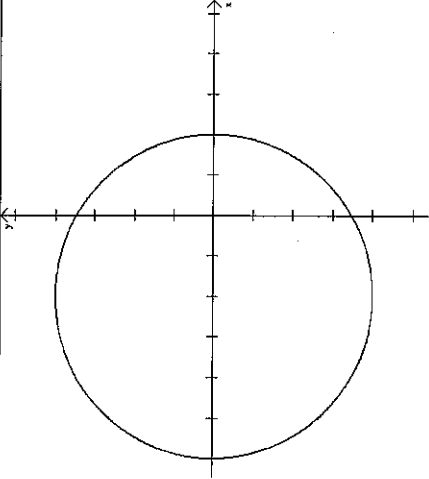
Deck #1


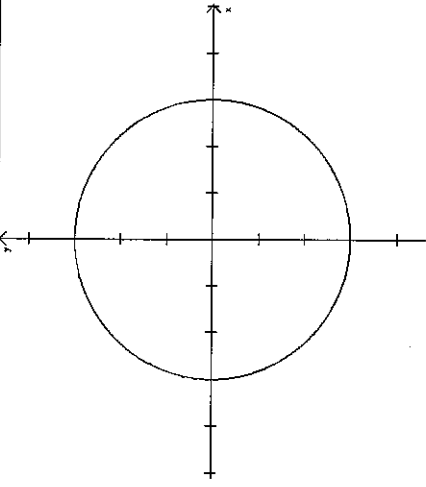

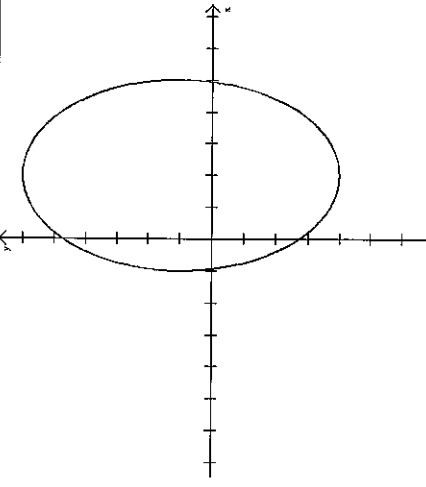

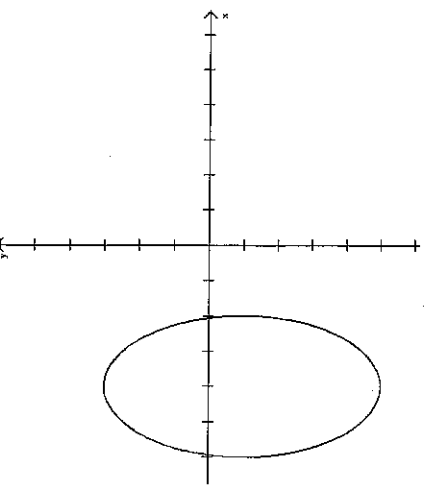
Conic Cards Deck #1

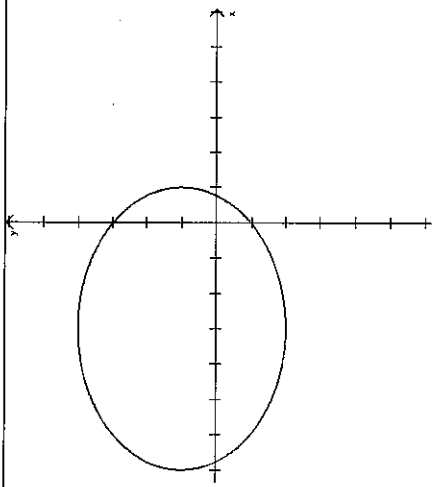
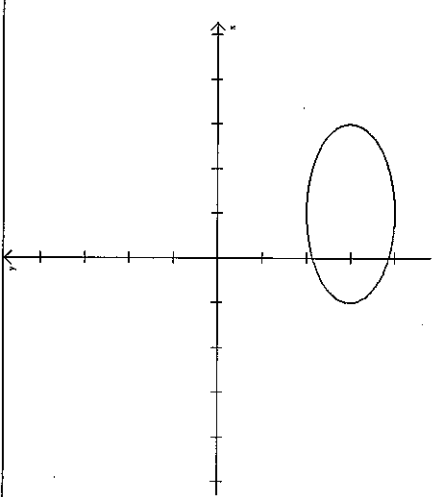
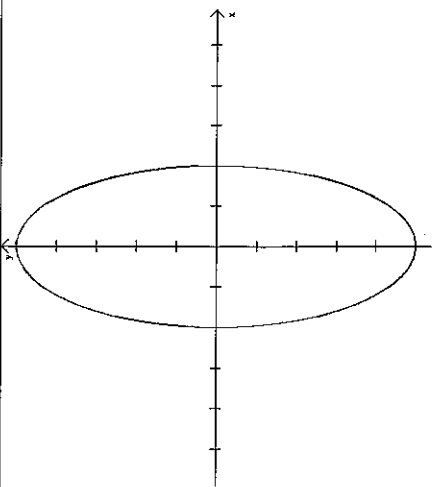
Parabolas			Circles			Ellipse			Hyperbola		
#	R	13	⬠	C	4	♡	P	14	&	H	20
%	E	7	■	L	18	★	N	16	>	A	11
▬	K	15	~	T	1	?	D	5	!	Q	8
@	O	6	▲	F	17	<	G	19	◆	J	10
▴	M	9	●	I	3	☺	B	2	\$	S	12

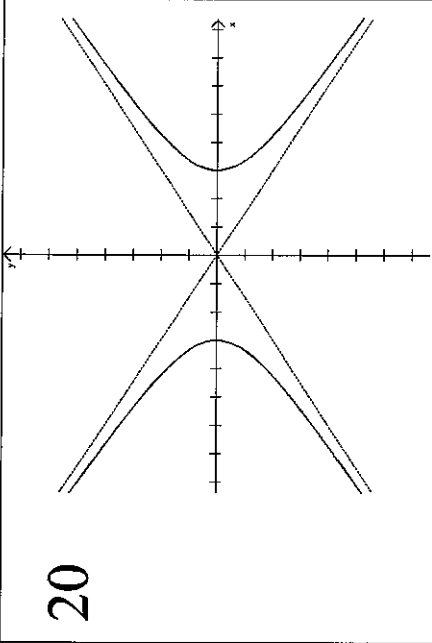
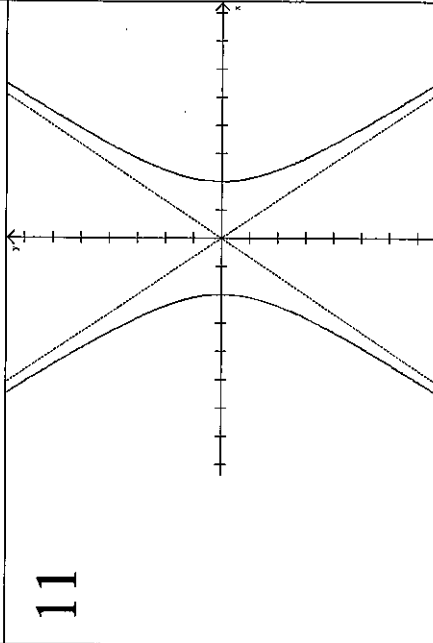
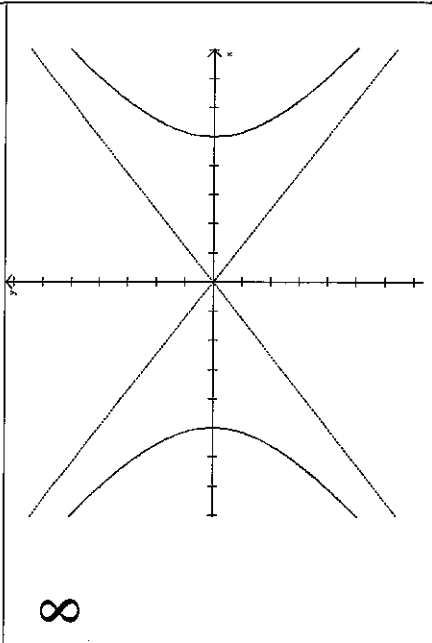
#	$x = -2(y-3)^2 - 1$	R	<p>Vertex is $(-1, 3)$ Opens left Focus is $(-1\frac{1}{8}, 3)$ Directrix is $x = -\frac{7}{8}$</p>	13	
%	$y = x^2 - 2$	E	<p>Vertex is $(0, -2)$ Opens up Focus is $(0, -1\frac{3}{4})$ Directrix is $y = -2\frac{1}{4}$</p>	7	
■	$x = (y+1)^2 - 2$	K	<p>Vertex is $(-2, -1)$ Opens right Focus is $(-1\frac{3}{4}, -1)$ Directrix is $x = -2\frac{1}{4}$</p>	15	

<p>@</p> $y = -2(x+1)^2 - 1$	<p>O</p> <p>Vertex is $(-1, -1)$ Opens down Focus is $(-1, -1\frac{1}{8})$ Directrix is $y = -\frac{7}{8}$</p>	<p>6</p> 
 $x = (y-2)^2$	<p>M</p> <p>Vertex is $(0, 2)$ Opens right Focus is $(\frac{1}{4}, 2)$ Directrix is $x = -\frac{1}{4}$</p>	<p>9</p> 
 $(x-1)^2 + (y-3)^2 = 1$	<p>C</p> <p>Center is $(1, 3)$ Radius is 1</p>	<p>4</p> 

 $(x-4)^2 + (y+1)^2 = 4$	<p>I</p> <p>Center is (4, -1) Radius is 2</p>	<p>3</p> 
 $(x+1)^2 + (y-2)^2 = 9$	<p>L</p> <p>Center is (-1, 2) Radius is 3</p>	<p>18</p> 
 $(x+2)^2 + y^2 = 16$	<p>T</p> <p>Center is (-2, 0) Radius is 4</p>	<p>1</p> 

 $x^2 + y^2 = 9$	<p>F</p> <p>Center is (0, 0) Radius is 3</p>	<p>17</p> 
 $\frac{(x-2)^2}{9} + \frac{(y-1)^2}{25} = 1$	<p>P</p> <p>Center is (2, 1) Major axis is parallel to the y-axis Length of the major axis is 10 Length of the minor axis is 6</p>	<p>14</p> 
 $\frac{(x+4)^2}{4} + \frac{(y+1)^2}{16} = 1$	<p>B</p> <p>Center is (-4, -1) Major axis is parallel to the y-axis Length of the major axis is 8 Length of the minor axis is 4</p>	<p>2</p> 

<div data-bbox="170 1873 251 1953">★</div> <div data-bbox="300 1533 381 1806"> $\frac{(x+3)^2}{16} + \frac{(y-1)^2}{9} = 1$ </div>	<div data-bbox="146 1270 194 1312">N</div> <div data-bbox="259 808 406 1249"> <p>Center is (-3, 1) Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 6</p> </div> <div data-bbox="138 630 194 693">16</div> <div data-bbox="113 84 544 567">  </div>
<div data-bbox="600 1911 649 1953">?</div> <div data-bbox="755 1533 836 1806"> $\frac{(x-1)^2}{4} + (y+3)^2 = 1$ </div>	<div data-bbox="592 1270 641 1312">D</div> <div data-bbox="714 808 860 1249"> <p>Center is (1, -3) Major axis is parallel to the x-axis Length of the major axis is 4 Length of the minor axis is 2</p> </div> <div data-bbox="592 661 641 703">5</div> <div data-bbox="568 84 998 577">  </div>
<div data-bbox="1055 1921 1096 1963"><</div> <div data-bbox="1201 1596 1282 1753"> $x^2 + \frac{y^2}{25} = 1$ </div>	<div data-bbox="1055 1270 1104 1312">G</div> <div data-bbox="1161 840 1307 1218"> <p>Center is (0, 0) Major axis lies on the y-axis Length of the major axis is 10 Length of the minor axis is 4</p> </div> <div data-bbox="1047 630 1104 693">19</div> <div data-bbox="1023 84 1453 567">  </div>

<p data-bbox="147 1902 196 1948">&</p> $\frac{x^2}{9} - \frac{y^2}{4} = 1$	<p data-bbox="126 1262 175 1308">H</p> <p data-bbox="256 930 289 1123">Center is (0, 0)</p> <p data-bbox="297 785 329 1268">Asymptotes are $y = \frac{2}{3}x$ and $y = -\frac{2}{3}x$</p> <p data-bbox="337 840 370 1213">Vertices are (3, 0) and (-3, 0)</p>	<p data-bbox="151 625 199 682">20</p> 
<p data-bbox="602 1902 634 1948">></p> $\frac{x^2}{4} - \frac{y^2}{9} = 1$	<p data-bbox="586 1262 634 1308">A</p> <p data-bbox="711 930 743 1123">Center is (0, 0)</p> <p data-bbox="751 785 784 1268">Asymptotes are $y = \frac{3}{2}x$ and $y = -\frac{3}{2}x$</p> <p data-bbox="792 840 824 1213">Vertices are (2, 0) and (-2, 0)</p>	<p data-bbox="589 625 638 682">11</p> 
<p data-bbox="1049 1934 1097 1948">!</p> $\frac{x^2}{25} - \frac{y^2}{16} = 1$	<p data-bbox="1052 1262 1101 1308">Q</p> <p data-bbox="1166 930 1198 1123">Center is (0, 0)</p> <p data-bbox="1206 785 1239 1268">Asymptotes are $y = \frac{4}{5}x$ and $y = -\frac{4}{5}x$</p> <p data-bbox="1247 840 1279 1213">Vertices are (5, 0) and (-5, 0)</p>	<p data-bbox="1052 657 1101 693">8</p> 

<div data-bbox="142 1843 224 1927" data-label="Image"> </div> <div data-bbox="289 1585 370 1743" data-label="Equation-Block"> $\frac{y^2}{4} - \frac{x^2}{25} = 1$ </div> <div data-bbox="126 1276 175 1312" data-label="Text"> <p>J</p> </div> <div data-bbox="251 787 373 1270" data-label="Text"> <p>Center is (0, 0) Asymptotes are $y = \frac{2}{5}x$ and $y = -\frac{2}{5}x$ Vertices are (0, 2) and (0, -2)</p> </div> <div data-bbox="138 625 186 682" data-label="Text"> <p>10</p> </div> <div data-bbox="110 79 535 562" data-label="Figure"> </div> <tr> <td> <div data-bbox="581 1906 630 1942" data-label="Text"> <p>\$</p> </div> <div data-bbox="711 1585 792 1743" data-label="Equation-Block"> $y^2 - \frac{x^2}{16} = 1$ </div> <div data-bbox="581 1276 630 1312" data-label="Text"> <p>S</p> </div> <div data-bbox="706 787 828 1270" data-label="Text"> <p>Center is (0, 0) Asymptotes are $y = \frac{1}{4}x$ and $y = -\frac{1}{4}x$ Vertices are (0, 1) and (0, -1)</p> </div> <div data-bbox="584 625 633 682" data-label="Text"> <p>12</p> </div> <div data-bbox="565 79 990 562" data-label="Figure"> </div> <tr> <td> <div data-bbox="1214 1575 1263 1759" data-label="Text"> <p>Hyperbola</p> </div> <div data-bbox="1084 945 1166 1113" data-label="Equation-Block"> $\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ </div> <div data-bbox="1201 934 1242 1123" data-label="Text"> <p>Center is (0, 0)</p> </div> <div data-bbox="1274 787 1396 1270" data-label="Text"> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (0, b) and (0, -b)</p> </div> <div data-bbox="1084 304 1166 472" data-label="Equation-Block"> $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ </div> <div data-bbox="1201 294 1242 483" data-label="Text"> <p>Center is (0, 0)</p> </div> <div data-bbox="1274 147 1396 630" data-label="Text"> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (a, 0) and (-a, 0)</p> </div> </td></tr></td></tr>	<div data-bbox="581 1906 630 1942" data-label="Text"> <p>\$</p> </div> <div data-bbox="711 1585 792 1743" data-label="Equation-Block"> $y^2 - \frac{x^2}{16} = 1$ </div> <div data-bbox="581 1276 630 1312" data-label="Text"> <p>S</p> </div> <div data-bbox="706 787 828 1270" data-label="Text"> <p>Center is (0, 0) Asymptotes are $y = \frac{1}{4}x$ and $y = -\frac{1}{4}x$ Vertices are (0, 1) and (0, -1)</p> </div> <div data-bbox="584 625 633 682" data-label="Text"> <p>12</p> </div> <div data-bbox="565 79 990 562" data-label="Figure"> </div> <tr> <td> <div data-bbox="1214 1575 1263 1759" data-label="Text"> <p>Hyperbola</p> </div> <div data-bbox="1084 945 1166 1113" data-label="Equation-Block"> $\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ </div> <div data-bbox="1201 934 1242 1123" data-label="Text"> <p>Center is (0, 0)</p> </div> <div data-bbox="1274 787 1396 1270" data-label="Text"> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (0, b) and (0, -b)</p> </div> <div data-bbox="1084 304 1166 472" data-label="Equation-Block"> $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ </div> <div data-bbox="1201 294 1242 483" data-label="Text"> <p>Center is (0, 0)</p> </div> <div data-bbox="1274 147 1396 630" data-label="Text"> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (a, 0) and (-a, 0)</p> </div> </td></tr>	<div data-bbox="1214 1575 1263 1759" data-label="Text"> <p>Hyperbola</p> </div> <div data-bbox="1084 945 1166 1113" data-label="Equation-Block"> $\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ </div> <div data-bbox="1201 934 1242 1123" data-label="Text"> <p>Center is (0, 0)</p> </div> <div data-bbox="1274 787 1396 1270" data-label="Text"> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (0, b) and (0, -b)</p> </div> <div data-bbox="1084 304 1166 472" data-label="Equation-Block"> $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ </div> <div data-bbox="1201 294 1242 483" data-label="Text"> <p>Center is (0, 0)</p> </div> <div data-bbox="1274 147 1396 630" data-label="Text"> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (a, 0) and (-a, 0)</p> </div>
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<p>Ellipse</p>	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$ <p>Center is (h, k)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ <p>Center is (0, 0)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>
<p>Circle</p>	$(x-h)^2 + (y-k)^2 = r^2$ <p>Center is (h, k)</p> <p>Radius is r</p>	$x^2 + y^2 = r^2$ <p>Center is (0, 0)</p> <p>Radius is r</p>
<p>Parabola</p>	$y = a(x-h)^2 + k$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens up. If $a < 0$, it opens down.</p> <p>Focus is $(h, k + \frac{1}{4a})$</p> <p>Directrix is $y = k - \frac{1}{4a}$</p>	$x = a(y-k)^2 + h$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens right. If $a < 0$, it opens left.</p> <p>Focus is $(h + \frac{1}{4a}, k)$</p> <p>Directrix is $x = h - \frac{1}{4a}$</p>

Conic Cards

Deck #2

Conic Cards Deck #2

Parabolas

>	R	12
%	F	18
#	D	8
&	K	17
?	H	11

Circles

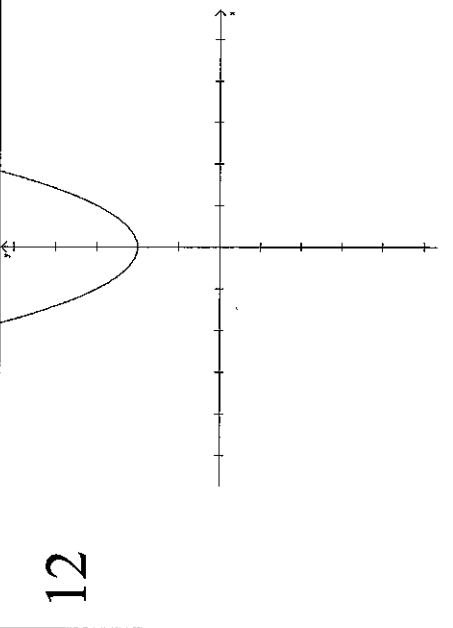
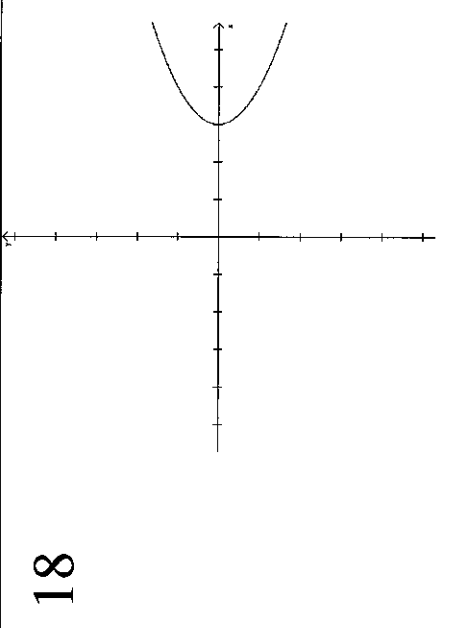
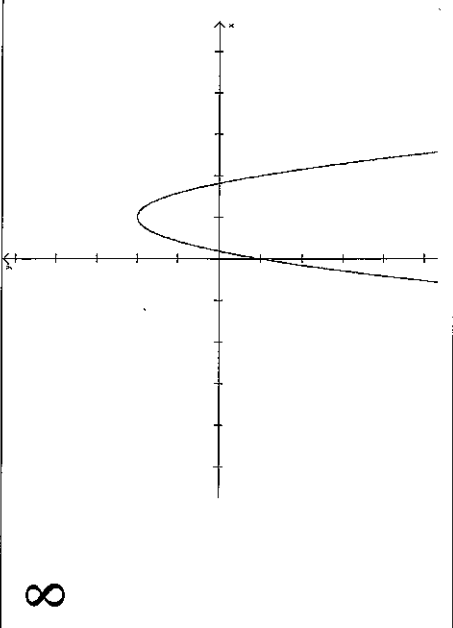
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★	N	13
■	J	19
~	O	9
▲	C	14

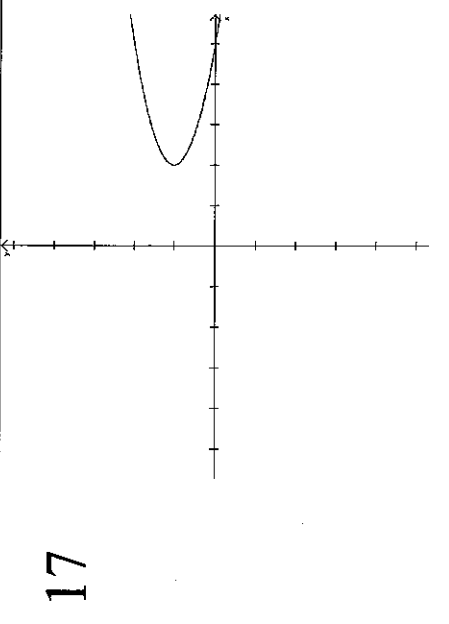
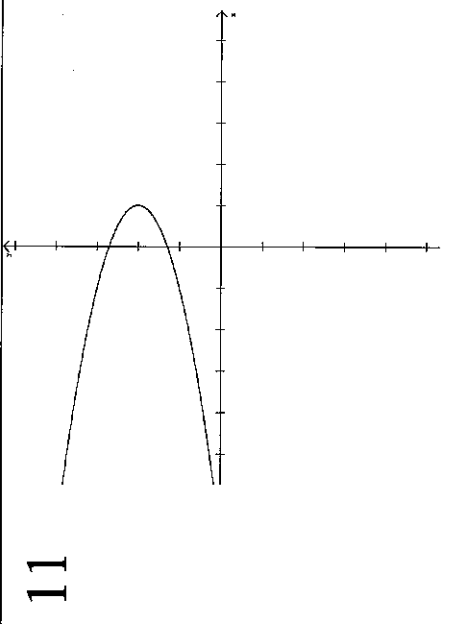
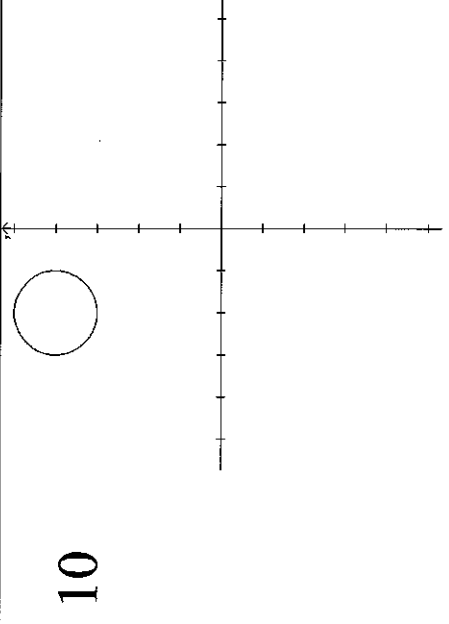
Ellipse


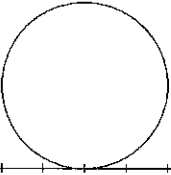
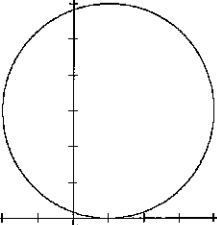
!	I	6
@	G	20
▲	T	5
⬠	L	15
☺	E	7

Hyperbola


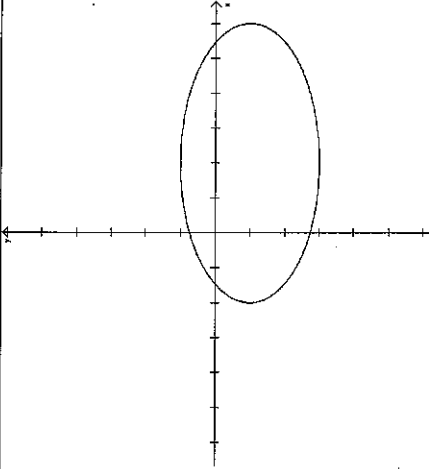

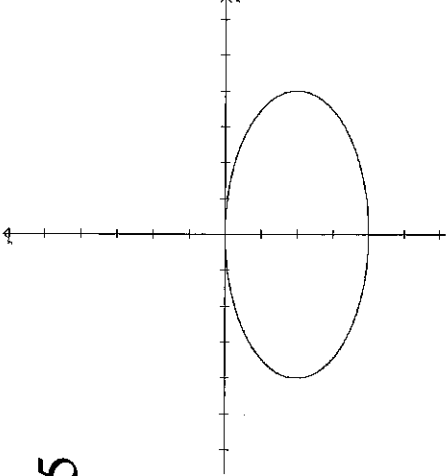
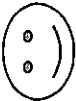
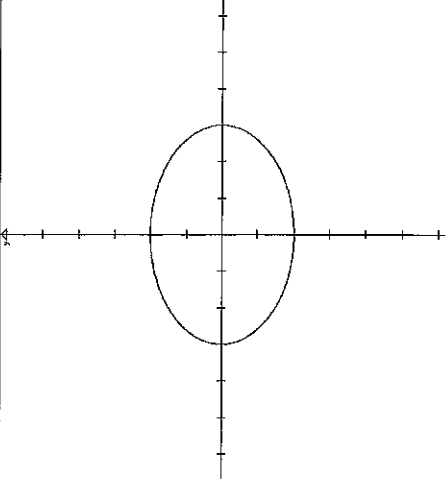
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♡	Q	16
◆	B	2
<	P	3
\$	A	1


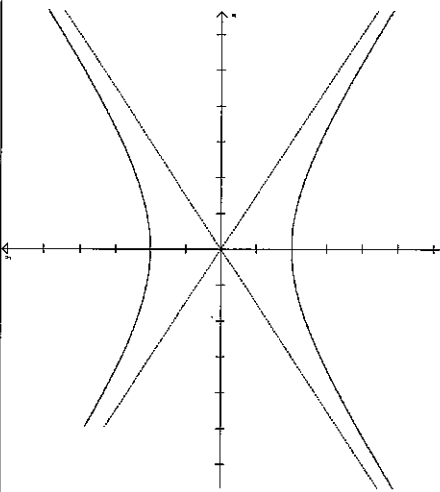

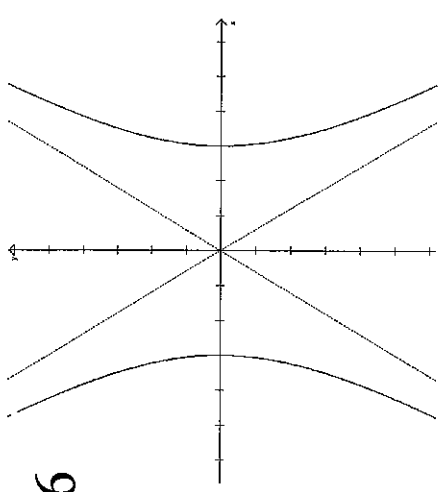

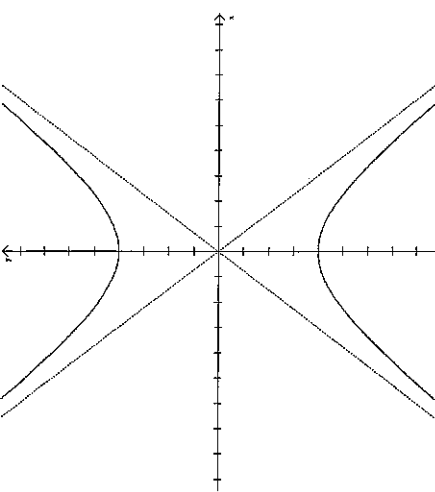
>	$y = x^2 + 2$	R	<p>Vertex is (0, 2) Opens up Focus is $(0, 2\frac{1}{4})$ Directrix is $y = 1\frac{3}{4}$</p>	12	
%	$x = y^2 + 3$	F	<p>Vertex is (3, 0) Opens right Focus is $(3\frac{1}{4}, 0)$ Directrix is $x = 2\frac{3}{4}$</p>	18	
#	$y = -3(x - 1)^2 + 2$	D	<p>Vertex is (1, 2) Opens down Focus is $(1, 1\frac{11}{12})$ Directrix is $y = 2\frac{1}{12}$</p>	8	

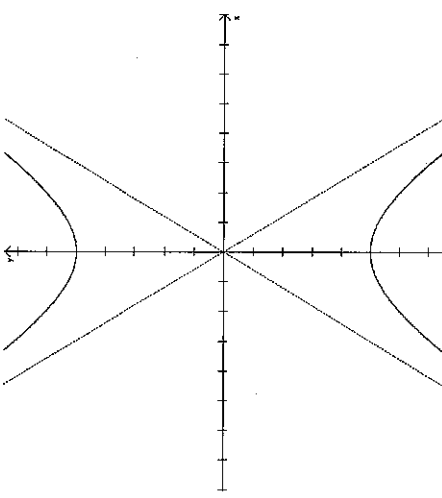
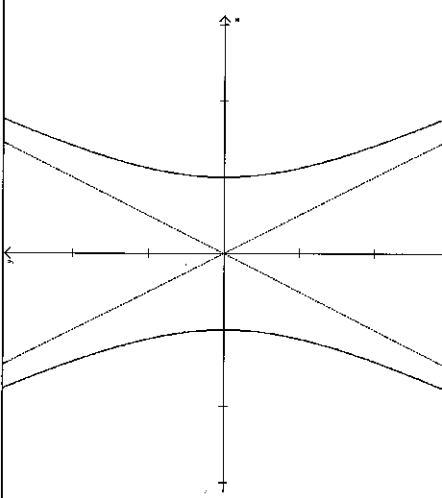
<p>&</p> $x = 3(y - 1)^2 + 2$	<p>K</p> <p>Vertex is $(2, 1)$ Opens right Focus is $(2\frac{1}{12}, 1)$ Directrix is $x = 1\frac{11}{12}$</p>	<p>17</p> 
<p>?</p> $x = -2(y - 2)^2 + 1$	<p>H</p> <p>Vertex is $(1, 2)$ Opens left Focus is $(\frac{7}{8}, 2)$ Directrix is $x = 1\frac{1}{8}$</p>	<p>11</p> 
<p>●</p> $(x + 2)^2 + (y - 4)^2 = 1$	<p>S</p> <p>Center is $(-2, 4)$ Radius is 1</p>	<p>10</p> 

<div data-bbox="120 1900 201 1982">★</div> <div data-bbox="289 1507 342 1845"> $(x+4)^2 + (y+3)^2 = 1$ </div> <div data-bbox="142 1268 188 1316">N</div> <div data-bbox="284 940 350 1152"> Center is (-4, -3) Radius is 1 </div> <div data-bbox="142 634 188 688">13</div> <div data-bbox="103 178 539 655">  </div>	
<div data-bbox="594 1879 646 1957">■</div> <div data-bbox="743 1524 789 1827"> $(x-2)^2 + (y+3)^2 = 4$ </div> <div data-bbox="594 1289 638 1316">J</div> <div data-bbox="740 945 805 1146"> Center is (2, -3) Radius is 2 </div> <div data-bbox="594 634 638 688">19</div> <div data-bbox="558 178 993 655">  </div>	
<div data-bbox="1057 1927 1076 1961">~</div> <div data-bbox="1195 1530 1240 1824"> $(x-3)^2 + (y+1)^2 = 9$ </div> <div data-bbox="1040 1293 1084 1341">O</div> <div data-bbox="1192 945 1256 1146"> Center is (3, -1) Radius is 3 </div> <div data-bbox="1040 663 1084 697">9</div> <div data-bbox="1013 178 1448 655">  </div>	

<div data-bbox="121 1900 203 1974"></div> <div data-bbox="284 1533 349 1816"> $(x+1)^2 + y^2 = 16$ </div>	<div data-bbox="138 1270 194 1312">C</div> <div data-bbox="316 934 397 1144"> Center is $(-1, 0)$ Radius is 4 </div>	<div data-bbox="138 630 194 682">14</div> <div data-bbox="105 178 535 640"></div>
<div data-bbox="592 1932 641 1963">!</div> <div data-bbox="738 1522 844 1827"> $\frac{(x+3)^2}{9} + \frac{(y-1)^2}{16} = 1$ </div>	<div data-bbox="592 1291 641 1312">I</div> <div data-bbox="706 819 852 1260"> Center is $(-3, 1)$ Major axis is parallel to the y-axis Length of the major axis is 8 Length of the minor axis is 6 </div>	<div data-bbox="592 651 641 693">6</div> <div data-bbox="560 178 998 640"></div>
<div data-bbox="1039 1900 1096 1953">@</div> <div data-bbox="1193 1522 1291 1827"> $\frac{(x-1)^2}{4} + \frac{(y+2)^2}{9} = 1$ </div>	<div data-bbox="1039 1270 1088 1312">G</div> <div data-bbox="1161 819 1307 1260"> Center is $(1, -2)$ Major axis is parallel to the y-axis Length of the major axis is 6 Length of the minor axis is 4 </div>	<div data-bbox="1039 630 1088 693">20</div> <div data-bbox="1015 178 1453 640"></div>

 $\frac{(x-2)^2}{16} + \frac{(y+1)^2}{4} = 1$	<p>T</p> <p>Center is (2, -1) Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 4</p>	<p>5</p> 
 $\frac{x^2}{16} + \frac{(y+2)^2}{4} = 1$	<p>L</p> <p>Center is (0, -2) Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 4</p>	<p>15</p> 
 $\frac{x^2}{9} + \frac{y^2}{4} = 1$	<p>E</p> <p>Center is (0, 0) Major axis lies on the x-axis Length of the major axis is 6 Length of the minor axis is 4</p>	<p>7</p> 

 $\frac{y^2}{4} - \frac{x^2}{9} = 1$	<p>M</p> <p>Center is (0, 0) Asymptotes are $y = \frac{2}{3}x$ and $y = -\frac{2}{3}x$ Vertices are (0, 2) and (0, -2)</p>	<p>4</p> 
 $\frac{x^2}{9} - \frac{y^2}{25} = 1$	<p>Q</p> <p>Center is (0, 0) Asymptotes are $y = \frac{5}{3}x$ and $y = -\frac{5}{3}x$ Vertices are (3, 0) and (-3, 0)</p>	<p>16</p> 
 $\frac{y^2}{16} - \frac{x^2}{9} = 1$	<p>B</p> <p>Center is (0, 0) Asymptotes are $y = \frac{4}{3}x$ and $y = -\frac{4}{3}x$ Vertices are (0, 4) and (0, -4)</p>	<p>2</p> 











<	$\frac{y^2}{25} - \frac{x^2}{9} = 1$	<p>P</p> <p>Center is (0, 0) Asymptotes are $y = \frac{5}{3}x$ and $y = -\frac{5}{3}x$ Vertices are (0, 5) and (0, -5)</p>	 <p>3</p>
S	$x^2 - \frac{y^2}{4} = 1$	<p>A</p> <p>Center is (0, 0) Asymptotes are $y = 2x$ and $y = -2x$ Vertices are (1, 0) and (-1, 0)</p>	 <p>1</p>
	<p>Hyperbola</p>	$\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ <p>Center is (0, 0) Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (0, b) and (0, -b)</p>	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ <p>Center is (0, 0) Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (a, 0) and (-a, 0)</p>


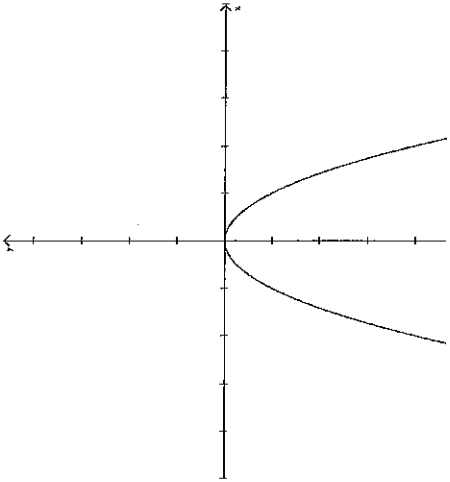

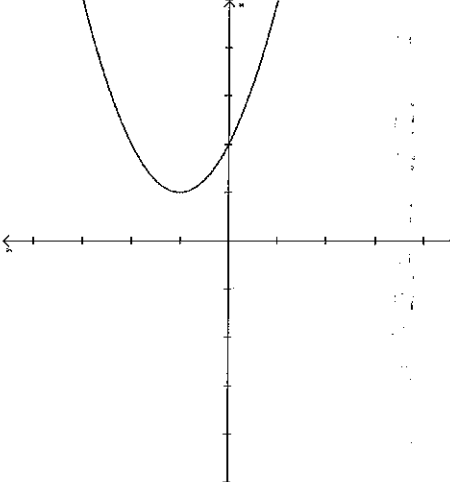
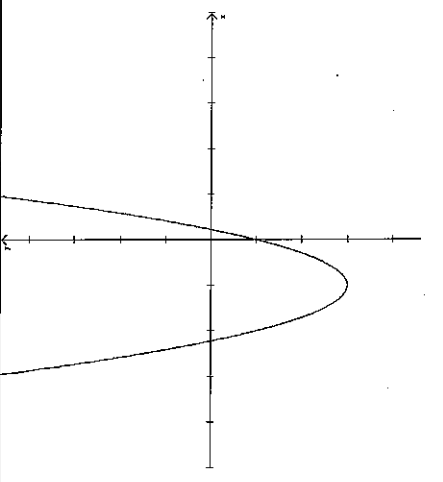
<p style="text-align: center;">Ellipse</p>	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$ <p style="text-align: center;">Center is (h, k)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ <p style="text-align: center;">Center is (0, 0)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>
<p style="text-align: center;">Circle</p>	$(x-h)^2 + (y-k)^2 = r^2$ <p style="text-align: center;">Center is (h, k)</p> <p style="text-align: center;">Radius is r</p>	$x^2 + y^2 = r^2$ <p style="text-align: center;">Center is (0, 0)</p> <p style="text-align: center;">Radius is r</p>
<p style="text-align: center;">Parabola</p>	$y = a(x-h)^2 + k$ <p style="text-align: center;">Vertex is (h, k)</p> <p>If $a > 0$, it opens up. If $a < 0$, it opens down.</p> <p style="text-align: center;">Focus is $(h, k + \frac{1}{4a})$</p> <p style="text-align: center;">Directrix is $y = k - \frac{1}{4a}$</p>	$x = a(y-k)^2 + h$ <p style="text-align: center;">Vertex is (h, k)</p> <p>If $a > 0$, it opens right. If $a < 0$, it opens left.</p> <p style="text-align: center;">Focus is $(h + \frac{1}{4a}, k)$</p> <p style="text-align: center;">Directrix is $x = h - \frac{1}{4a}$</p>

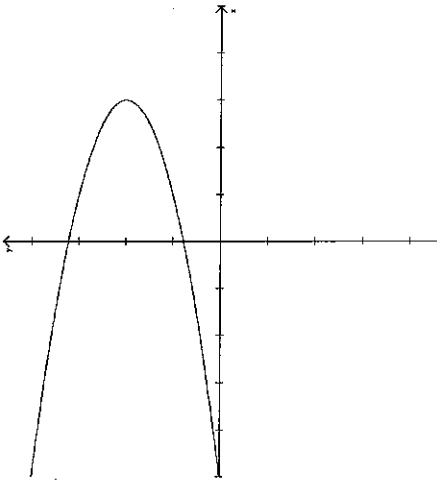
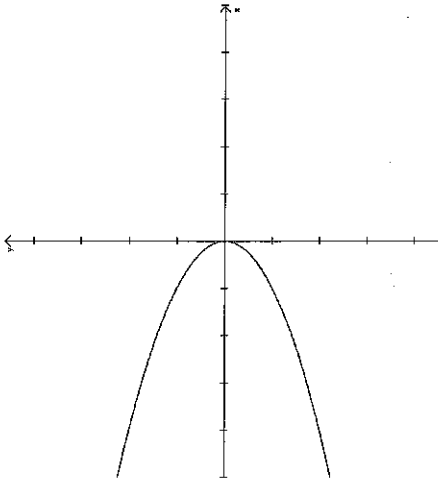
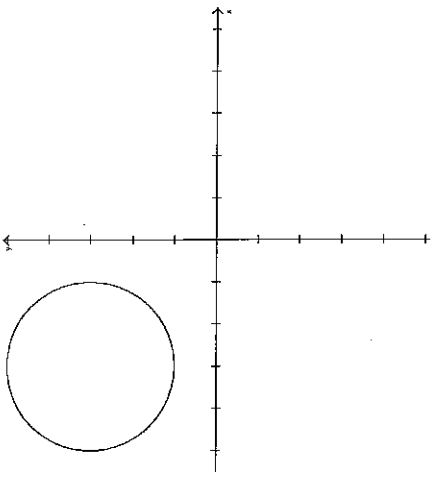
Conic Cards

Deck #3

Conic Cards Deck #3

Parabolas			Circles			Ellipse			Hyperbola		
	Q	13		B	10	#	G	9	?	S	1
	C	4		K	7	@	F	3		O	16
<	L	8	&	M	17		I	14	~	P	20
>	J	15		E	19	\$	H	11	%	R	12
	N	5		A	2		D	18	!	T	6

 $y = -x^2$	<p>Q</p> <p>Vertex is (0, 0) Opens down Focus is $(0, -\frac{1}{4})$ Directrix is $y = \frac{1}{4}$</p>	<p>13</p> 
 $x = (y - 1)^2 + 1$	<p>C</p> <p>Vertex is (1, 1) Opens right Focus is $(1\frac{1}{4}, 1)$ Directrix is $x = \frac{3}{4}$</p>	<p>4</p> 
<p><</p> $y = 2(x + 1)^2 - 3$	<p>L</p> <p>Vertex is (-1, -3) Opens up Focus is $(-1, -2\frac{7}{8})$ Directrix is $y = -3\frac{1}{8}$</p>	<p>8</p> 

<p>></p> $x = -2(y - 2)^2 + 3$	<p>J</p> <p>Vertex is (3, 2) Opens left Focus is $(2\frac{7}{8}, 2)$ Directrix is $x = 3\frac{1}{8}$</p>	<p>15</p> 
<p>♡</p> $x = -y^2$	<p>N</p> <p>Vertex is (0, 0) Opens left Focus is $(-\frac{1}{4}, 0)$ Directrix is $x = \frac{1}{4}$</p>	<p>5</p> 
<p>▲</p> $(x + 3)^2 + (y - 3)^2 = 4$	<p>B</p> <p>Center is (-3, 3) Radius is 2</p>	<p>10</p> 

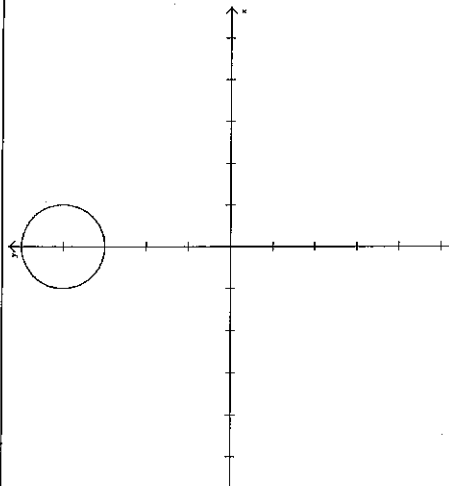


$$x^2 + (y - 4)^2 = 1$$

K

Center is (0, 4)
Radius is 1

7

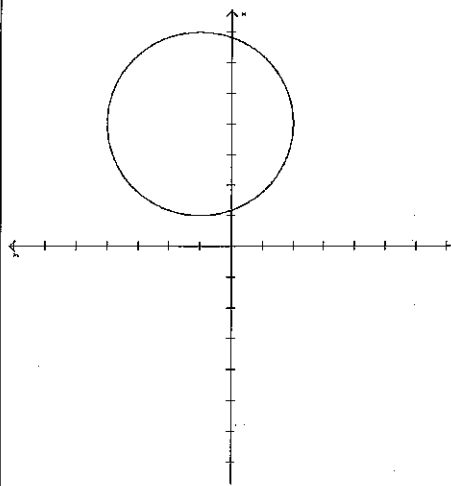


$$(x - 4)^2 + (y - 1)^2 = 9$$

M

Center is (4, 1)
Radius is 3

17

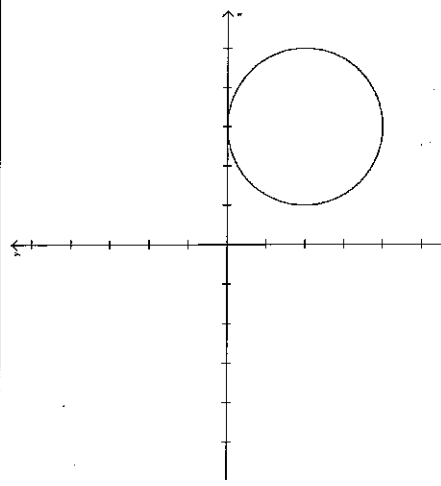


$$(x - 3)^2 + (y + 2)^2 = 4$$

E

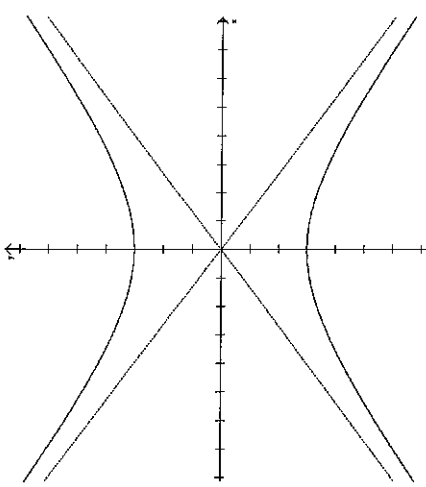
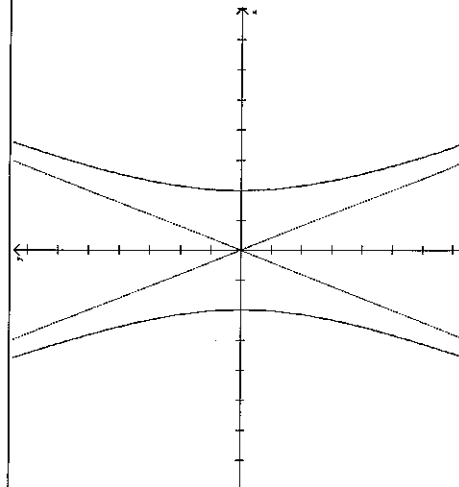
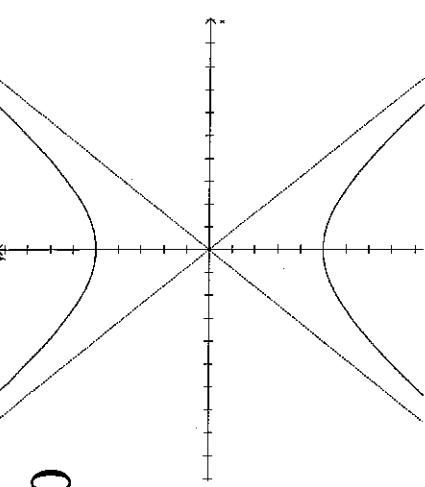
Center is (3, -2)
Radius is 2

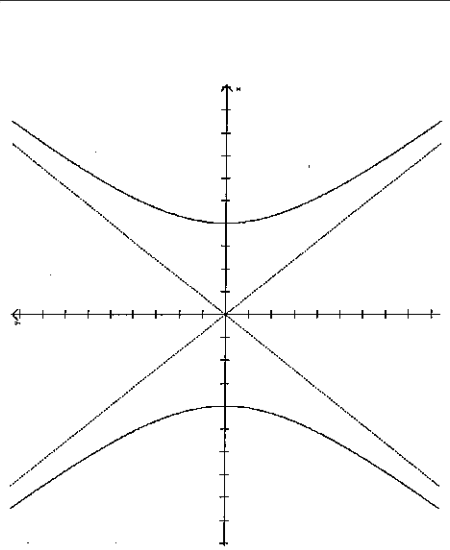
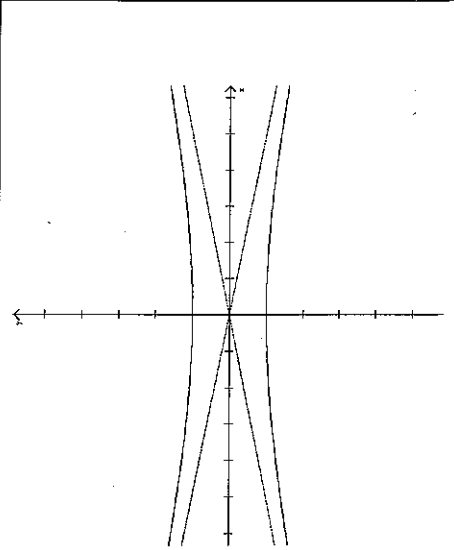
19



<div data-bbox="126 1921 178 1974" data-label="Image"></div> $(x+4)^2 + y^2 = 1$	<div data-bbox="126 1291 175 1333" data-label="Text">A</div> <p>Center is $(-4, 0)$ Radius is 1</p>	<div data-bbox="129 682 178 724" data-label="Text">2</div> <div data-bbox="295 178 381 655" data-label="Figure"></div>
<div data-bbox="600 1921 649 1963" data-label="Text">#</div> $\frac{(x+4)^2}{4} + \frac{(y-1)^2}{9} = 1$	<div data-bbox="600 1291 649 1333" data-label="Text">G</div> <p>Center is $(-4, 1)$ Major axis is parallel to the y-axis Length of the major axis is 6 Length of the minor axis is 4</p>	<div data-bbox="617 682 665 724" data-label="Text">9</div> <div data-bbox="641 178 876 655" data-label="Figure"></div>
<div data-bbox="1047 1900 1112 1963" data-label="Text">@</div> $\frac{(x+3)^2}{16} + \frac{(y-2)^2}{4} = 1$	<div data-bbox="1047 1291 1096 1333" data-label="Text">F</div> <p>Center is $(-3, 2)$ Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 4</p>	<div data-bbox="1047 682 1096 724" data-label="Text">3</div> <div data-bbox="1128 178 1461 655" data-label="Figure"></div>

<div data-bbox="131 1896 185 1976" data-label="Image"></div> $\frac{x^2}{9} + \frac{y^2}{16} = 1$	<div data-bbox="155 1308 204 1337" data-label="Text">I</div> <div data-bbox="298 858 441 1228" data-label="Text"> <p>Center is (0, 0) Major axis lies on the y-axis Length of the major axis is 8 Length of the minor axis is 6</p> </div>	<div data-bbox="136 657 181 714" data-label="Text">14</div> <div data-bbox="128 180 561 653" data-label="Figure"> </div>
<div data-bbox="607 1919 656 1953" data-label="Text">\$</div> $\frac{(x-2)^2}{25} + \frac{(y+1)^2}{4} = 1$	<div data-bbox="599 1287 647 1337" data-label="Text">H</div> <div data-bbox="721 825 863 1262" data-label="Text"> <p>Center is (2, -1) Major axis is parallel to the x-axis Length of the major axis is 10 Length of the minor axis is 4</p> </div>	<div data-bbox="612 657 657 714" data-label="Text">11</div> <div data-bbox="578 180 1011 653" data-label="Figure"> </div>
<div data-bbox="1036 1919 1088 1976" data-label="Image"></div> $\frac{(x-1)^2}{25} + (y+1)^2 = 1$	<div data-bbox="1058 1287 1107 1337" data-label="Text">D</div> <div data-bbox="1175 846 1318 1241" data-label="Text"> <p>Center is (1, -1) Major axis is parallel to x-axis Length of the major axis is 10 Length of the minor axis is 2</p> </div>	<div data-bbox="1062 657 1107 714" data-label="Text">18</div> <div data-bbox="1036 180 1469 653" data-label="Figure"> </div>

?	$\frac{y^2}{9} - \frac{x^2}{16} = 1$	S	<p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{3}{4}x$ and $y = -\frac{3}{4}x$</p> <p>Vertices are (0, 3) and (0, -3)</p>	1	
◼	$\frac{x^2}{4} - \frac{y^2}{25} = 1$	O	<p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{5}{2}x$ and $y = -\frac{5}{2}x$</p> <p>Vertices are (2, 0) and (-2, 0)</p>	16	
~	$\frac{y^2}{25} - \frac{x^2}{16} = 1$	P	<p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{5}{4}x$ and $y = -\frac{5}{4}x$</p> <p>Vertices are (0, 5) and (0, -5)</p>	20	









%	<div data-bbox="259 1575 357 1764" data-label="Equation-Block"> $\frac{x^2}{16} - \frac{y^2}{25} = 1$ </div> <div data-bbox="121 1281 186 1344" data-label="Text"> <p>R</p> </div> <div data-bbox="251 798 389 1291" data-label="Text"> <p>Center is (0, 0) Asymptotes are $y = \frac{5}{4}x$ and $y = -\frac{5}{4}x$ Vertices are (4, 0) and (-4, 0)</p> </div> <div data-bbox="121 105 568 730" data-label="Figure"> <div data-bbox="121 651 186 724" data-label="Text"> <p>12</p> </div>  </div>	!	<div data-bbox="747 1575 844 1764" data-label="Equation-Block"> $\frac{y^2}{25} - \frac{x^2}{16} = 1$ </div> <div data-bbox="576 1281 641 1344" data-label="Text"> <p>T</p> </div> <div data-bbox="730 798 868 1291" data-label="Text"> <p>Center is (0, 0) Asymptotes are $y = \frac{5}{4}x$ and $y = -\frac{5}{4}x$ Vertices are (0, 5) and (0, -5)</p> </div> <div data-bbox="576 105 1026 730" data-label="Figure"> <div data-bbox="576 651 641 724" data-label="Text"> <p>6</p> </div>  </div>	Hyperbola	<div data-bbox="1088 945 1185 1134" data-label="Equation-Block"> $\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ </div> <div data-bbox="1209 934 1266 1144" data-label="Text"> <p>Center is (0, 0)</p> </div> <div data-bbox="1282 798 1421 1291" data-label="Text"> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (0, b) and (0, -b)</p> </div>	<div data-bbox="1088 315 1185 504" data-label="Equation-Block"> $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ </div> <div data-bbox="1209 304 1266 514" data-label="Text"> <p>Center is (0, 0)</p> </div> <div data-bbox="1282 168 1421 661" data-label="Text"> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (a, 0) and (-a, 0)</p> </div>
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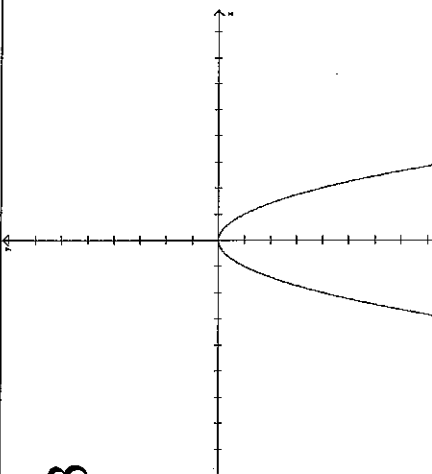
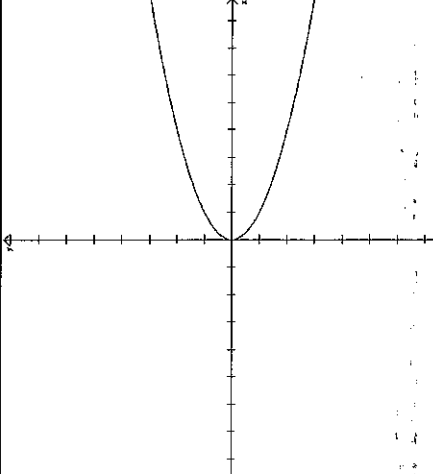

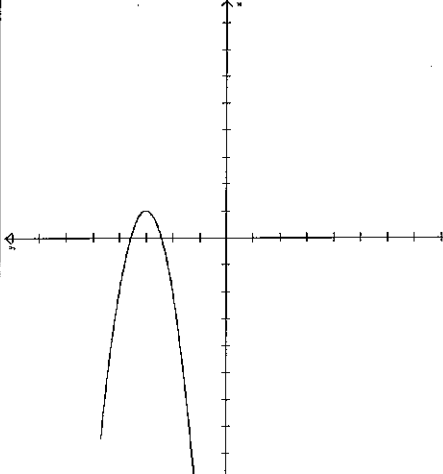
<p style="text-align: center;">Ellipse</p>	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$ <p style="text-align: center;">Center is (h, k)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ <p style="text-align: center;">Center is (0, 0)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>
<p style="text-align: center;">Circle</p>	$(x-h)^2 + (y-k)^2 = r^2$ <p style="text-align: center;">Center is (h, k)</p> <p style="text-align: center;">Radius is r</p>	$x^2 + y^2 = r^2$ <p style="text-align: center;">Center is (0, 0)</p> <p style="text-align: center;">Radius is r</p>
<p style="text-align: center;">Parabola</p>	$y = a(x-h)^2 + k$ <p style="text-align: center;">Vertex is (h, k)</p> <p>If $a > 0$, it opens up. If $a < 0$, it opens down.</p> <p style="text-align: center;">Focus is $(h, k + \frac{1}{4a})$</p> <p style="text-align: center;">Directrix is $y = k - \frac{1}{4a}$</p>	$x = a(y-k)^2 + h$ <p style="text-align: center;">Vertex is (h, k)</p> <p>If $a > 0$, it opens right. If $a < 0$, it opens left.</p> <p style="text-align: center;">Focus is $(h + \frac{1}{4a}, k)$</p> <p style="text-align: center;">Directrix is $x = h - \frac{1}{4a}$</p>

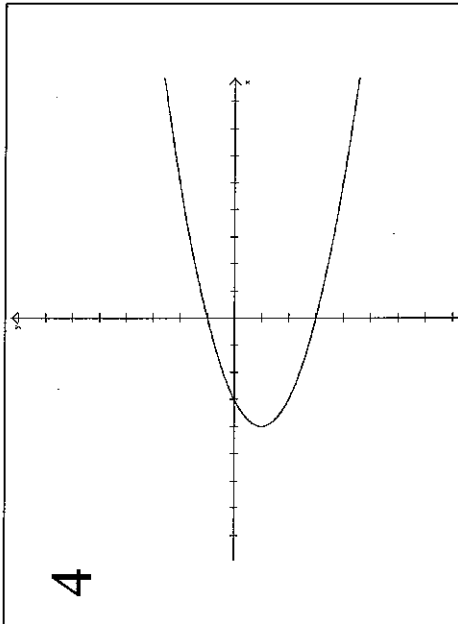
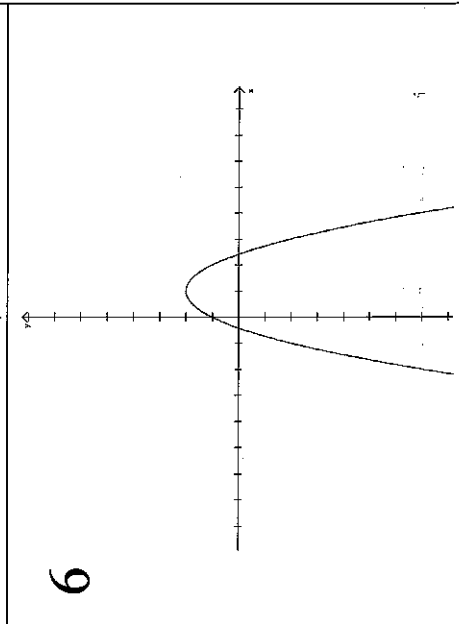
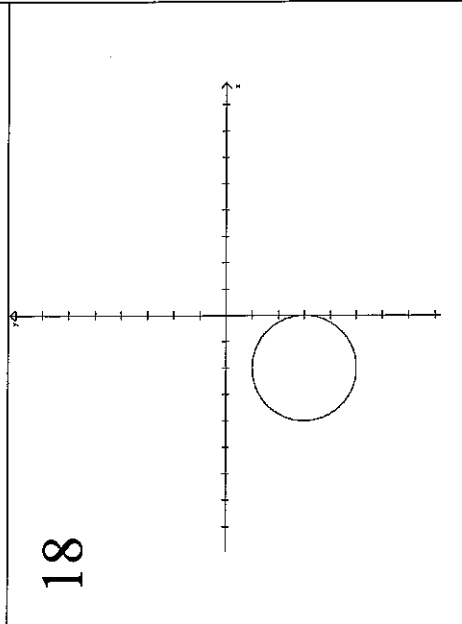
Conic Cards

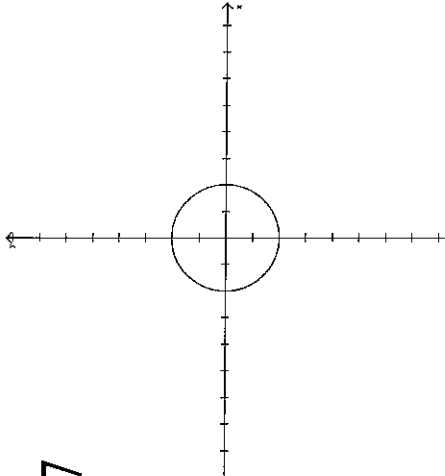

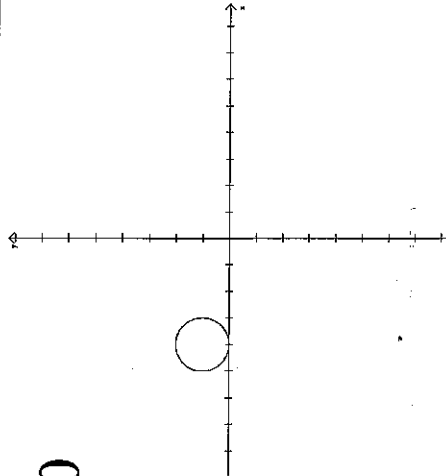

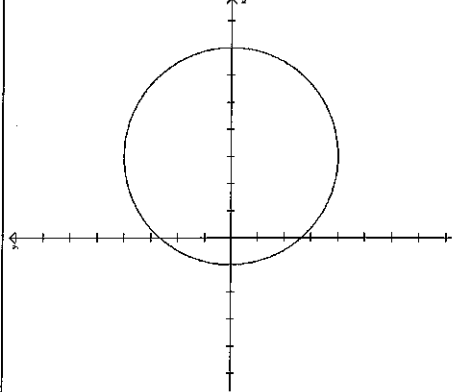
Deck #4

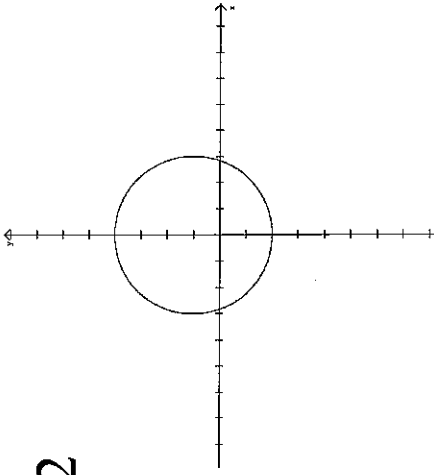
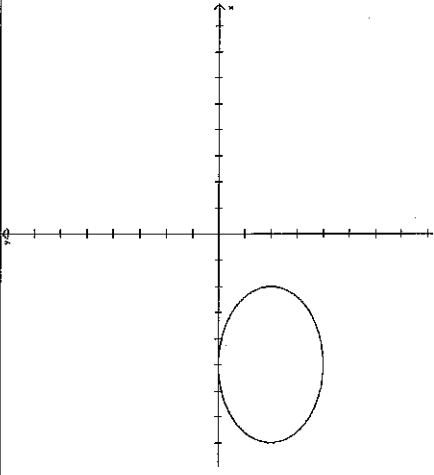
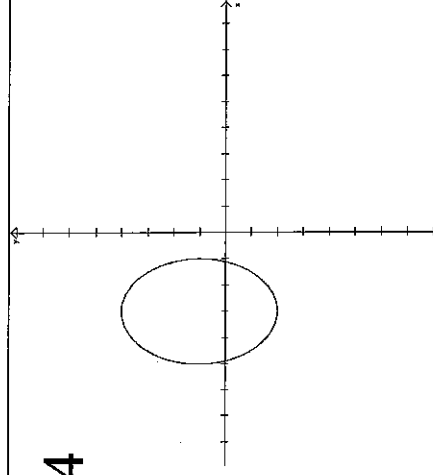
Conic Cards Deck #4

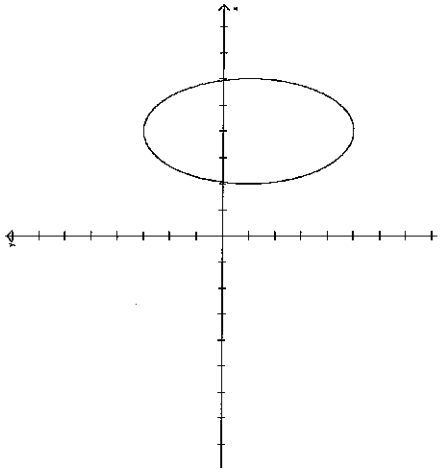
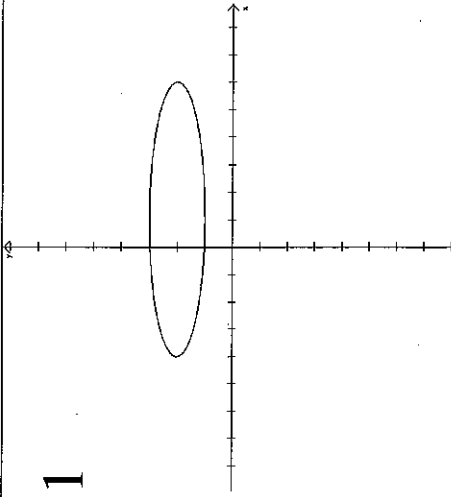
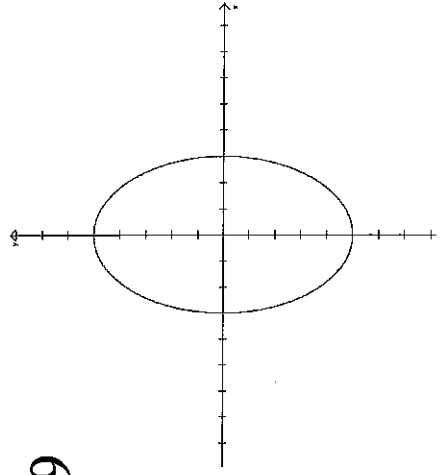
Parabolas				Circles				Ellipse				Hyperbola			
	Q	13		!	R	18			C	3		%	D	15	
?	M	2		<	S	17		&	I	14			N	5	
	H	8			F	20			J	9		#	E	1	
	O	4			B	10		★	A	11		\$	K	7	
>	L	6		@	G	12		☺	P	19		~	T	16	

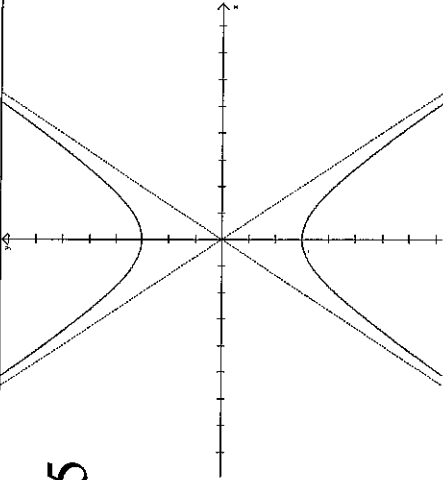
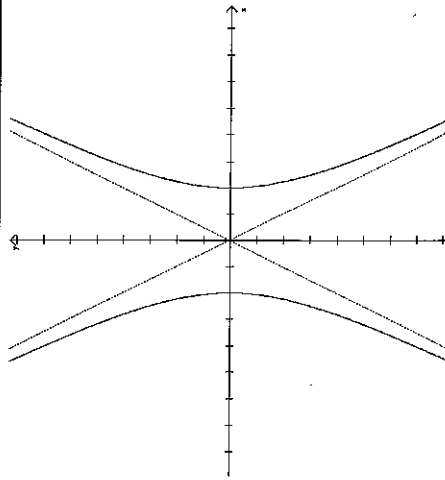
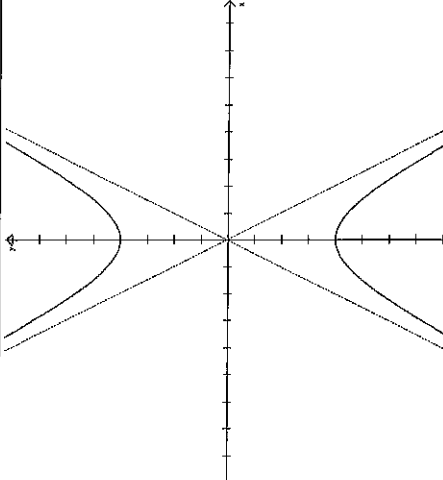
 $y = -x^2$	<p>Q</p> <p>Vertex is (0, 0) Opens down Focus is $(0, -\frac{1}{4})$ Directrix is $y = \frac{1}{4}$</p>	<p>13</p> 
<p>?</p> $x = y^2$	<p>M</p> <p>Vertex is (0, 0) Opens right Focus is $(\frac{1}{4}, 0)$ Directrix is $x = -\frac{1}{4}$</p>	<p>2</p> 
 $x = -3(y - 3)^2 + 1$	<p>H</p> <p>Vertex is (1, 3) Opens left Focus is $(\frac{11}{12}, 3)$ Directrix is $x = 1\frac{1}{12}$</p>	<p>8</p> 

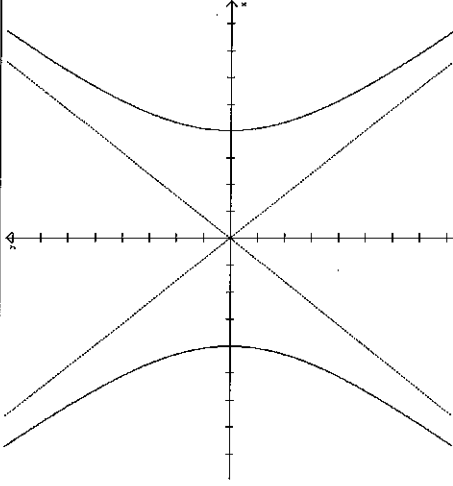
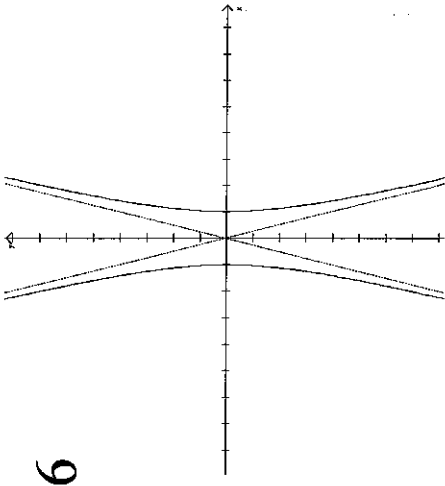
▲	$x = (y + 1)^2 - 4$	O	<p>Vertex is $(-4, -1)$ Opens right Focus is $(-3\frac{3}{4}, -1)$ Directrix is $x = -4\frac{1}{4}$</p>	4	
>	$y = -(x - 1)^2 + 2$	L	<p>Vertex is $(1, 2)$ Opens down Focus is $(1, 1\frac{3}{4})$ Directrix is $y = 2\frac{1}{4}$</p>	6	
!	$(x + 2)^2 + (y + 3)^2 = 4$	R	<p>Center is $(-2, -3)$ Radius is 2</p>	18	

<div data-bbox="159 1917 196 1959"><</div> <div data-bbox="337 1581 386 1766">$x^2 + y^2 = 4$</div>	<div data-bbox="154 1281 203 1314">S</div> <div data-bbox="300 951 370 1142">Center is (0, 0) Radius is 2</div>	<div data-bbox="159 638 207 695">17</div> <div data-bbox="126 184 568 657">  </div>
<div data-bbox="615 1820 670 1944">  </div> <div data-bbox="760 1528 808 1818">$(x + 4)^2 + (y - 1)^2 = 1$</div>	<div data-bbox="610 1281 659 1314">F</div> <div data-bbox="760 947 829 1148">Center is (-4, 1) Radius is 1</div>	<div data-bbox="613 638 662 695">20</div> <div data-bbox="581 184 1023 657">  </div>
<div data-bbox="1060 1875 1115 1950">  </div> <div data-bbox="1252 1549 1300 1795">$(x - 3)^2 + y^2 = 16$</div>	<div data-bbox="1060 1297 1109 1339">B</div> <div data-bbox="1222 951 1292 1142">Center is (3, 0) Radius is 4</div>	<div data-bbox="1243 638 1292 695">10</div> <div data-bbox="1032 184 1481 573">  </div>

@	$x^2 + (y - 1)^2 = 9$	G	Center is (0, 1) Radius is 3	12	
⬠	$\frac{(x+5)^2}{9} + \frac{(y+2)^2}{4} = 1$	C	Center is (-5, -2) Major axis is parallel to the x-axis Length of the major axis is 6 Length of the minor axis is 4	3	
&	$\frac{(x+3)^2}{4} + \frac{(y-1)^2}{9} = 1$	I	Center is (-3, 1) Major axis is parallel to the y-axis Length of the major axis is 6 Length of the minor axis is 4	14	

●	$\frac{(x-4)^2}{4} + \frac{(y+1)^2}{16} = 1$	<p>J</p> <p>Center is (4, -1) Major axis is parallel to the y-axis Length of the major axis is 8 Length of the minor axis is 4</p>	<p>9</p> 
★	$\frac{(x-1)^2}{25} + \frac{(y-2)^2}{16} = 1$	<p>A</p> <p>Center is (1, 2) Major axis is parallel to the x-axis Length of the major axis is 10 Length of the minor axis is 4</p>	<p>11</p> 
😊	$\frac{x^2}{9} + \frac{y^2}{25} = 1$	<p>P</p> <p>Center is (0, 0) Major axis lies on the y-axis Length of the major axis is 10 Length of the minor axis is 6</p>	<p>19</p> 

<p>%</p> $\frac{y^2}{9} - \frac{x^2}{4} = 1$	<p>D</p> <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{3}{2}x$ and $y = -\frac{3}{2}x$</p> <p>Vertices are (0, 3) and (0, -3)</p>	<p>15</p> 
<p>■</p> $\frac{x^2}{4} - \frac{y^2}{16} = 1$	<p>N</p> <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{4}{2}x$ and $y = -\frac{4}{2}x$, which are equal to $y = 2x$ and $y = -2x$</p> <p>Vertices are (2, 0) and (-2, 0)</p>	<p>5</p> 
<p>#</p> $\frac{y^2}{16} - \frac{x^2}{4} = 1$	<p>E</p> <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{4}{2}x$ and $y = -\frac{4}{2}x$, which are equal to $y = 2x$ and $y = -2x$</p> <p>Vertices are (0, 4) and (0, -4)</p>	<p>1</p> 

\$	$\frac{x^2}{16} - \frac{y^2}{25} = 1$	<p>K</p> <p>Center is (0, 0) Asymptotes are $y = \frac{5}{4}x$ and $y = -\frac{5}{4}x$ Vertices are (4, 0) and (-4, 0)</p>	<p>7</p> 
~	$x^2 - \frac{y^2}{16} = 1$	<p>T</p> <p>Center is (0, 0) Asymptotes are $y = 4x$ and $y = -4x$ Vertices are (1, 0) and (-1, 0)</p>	<p>16</p> 
	<p>Hyperbola</p>	$\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ <p>Center is (0, 0) Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (0, b) and (0, -b)</p>	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ <p>Center is (0, 0) Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (a, 0) and (-a, 0)</p>

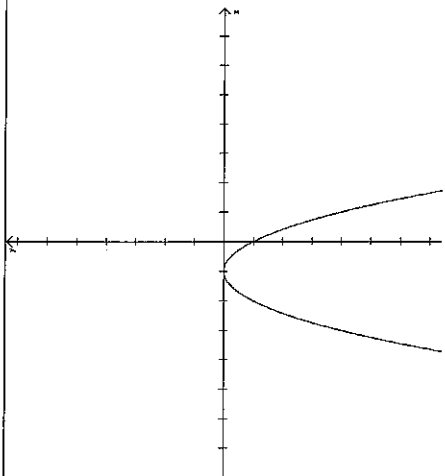
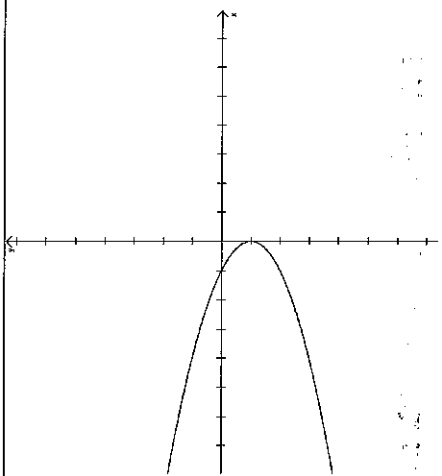
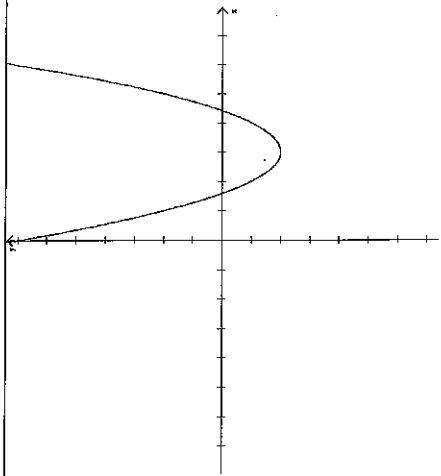
<p style="text-align: center;">Ellipse</p>	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$ <p style="text-align: center;">Center is (h, k)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ <p style="text-align: center;">Center is (0, 0)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>
<p style="text-align: center;">Circle</p>	$(x-h)^2 + (y-k)^2 = r^2$ <p style="text-align: center;">Center is (h, k)</p> <p style="text-align: center;">Radius is r</p>	$x^2 + y^2 = r^2$ <p style="text-align: center;">Center is (0, 0)</p> <p style="text-align: center;">Radius is r</p>
<p style="text-align: center;">Parabola</p>	$y = a(x-h)^2 + k$ <p style="text-align: center;">Vertex is (h, k)</p> <p>If $a > 0$, it opens up. If $a < 0$, it opens down.</p> <p style="text-align: center;">Focus is $(h, k + \frac{1}{4a})$</p> <p style="text-align: center;">Directrix is $y = k - \frac{1}{4a}$</p>	$x = a(y-k)^2 + h$ <p style="text-align: center;">Vertex is (h, k)</p> <p>If $a > 0$, it opens right. If $a < 0$, it opens left.</p> <p style="text-align: center;">Focus is $(h + \frac{1}{4a}, k)$</p> <p style="text-align: center;">Directrix is $x = h - \frac{1}{4a}$</p>

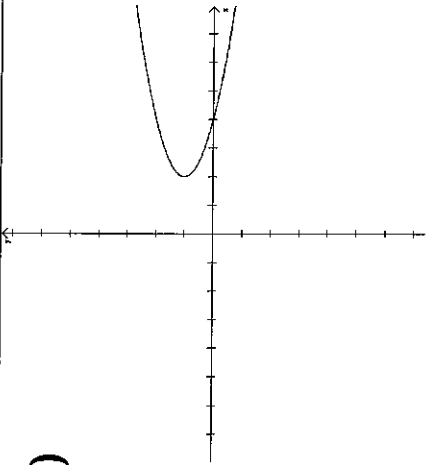
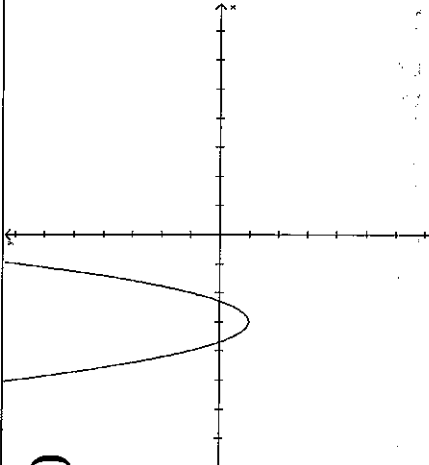
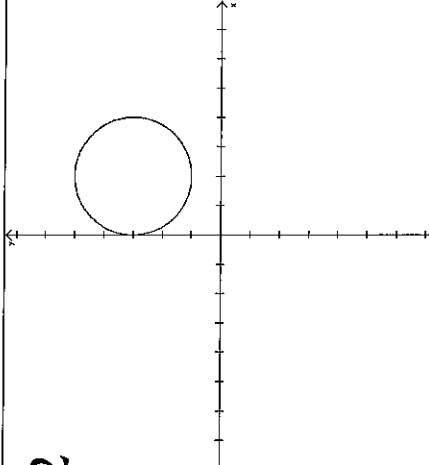
Conic Cards


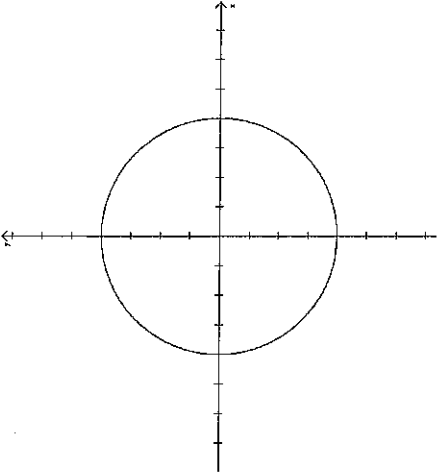
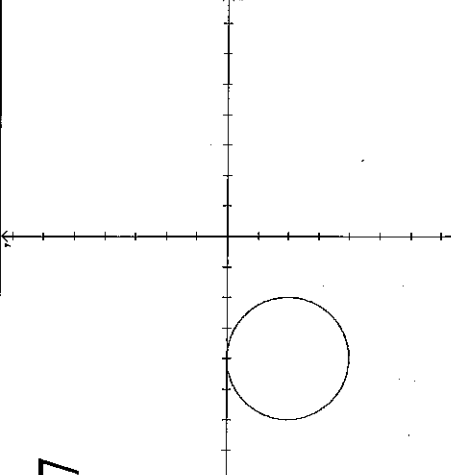

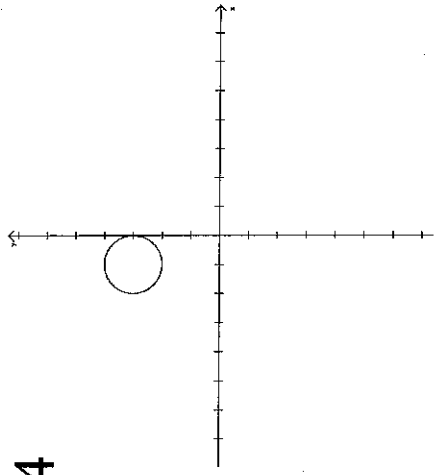
Deck #5

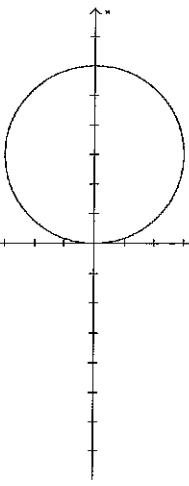
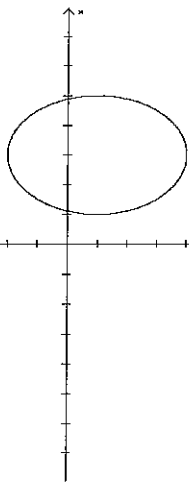
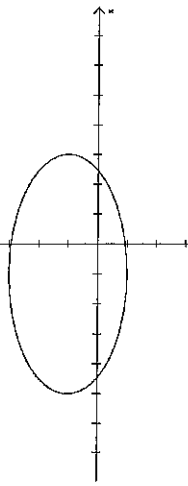
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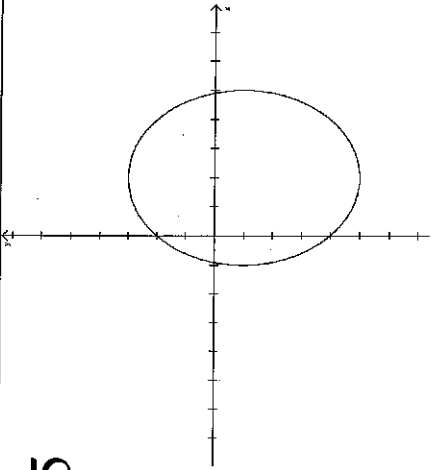
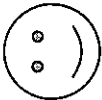
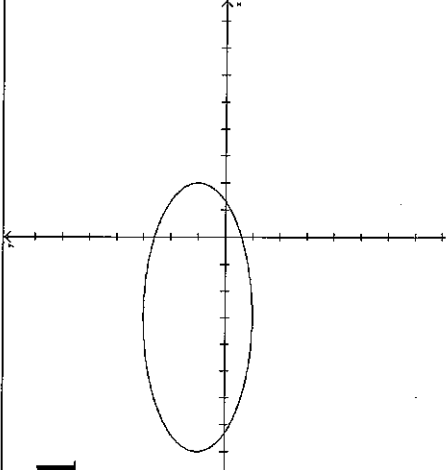

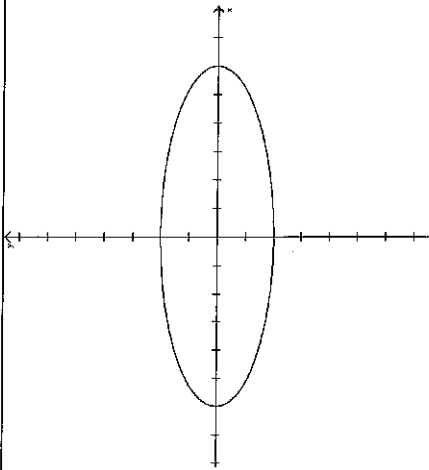
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@	K	4	▲	L	6	!	C	13	&	T	7
%	A	5	<	N	17	■	E	15	~	P	18
●	S	10	◆	R	14	☺	B	11	⬠	M	8
■	Q	20	?	O	9	★	J	1	\$	I	3


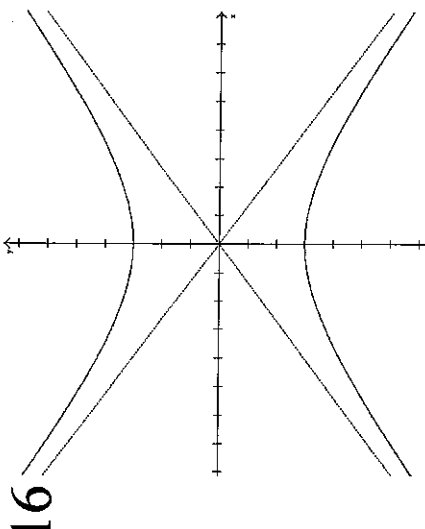
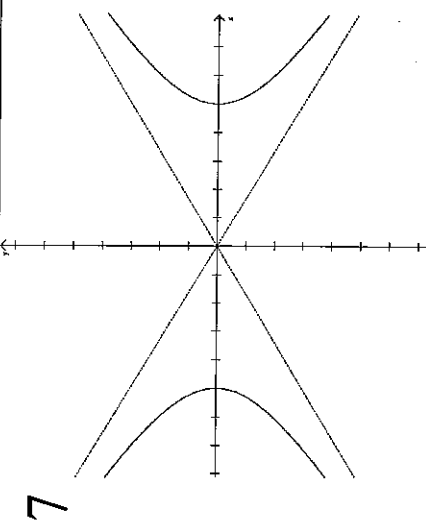
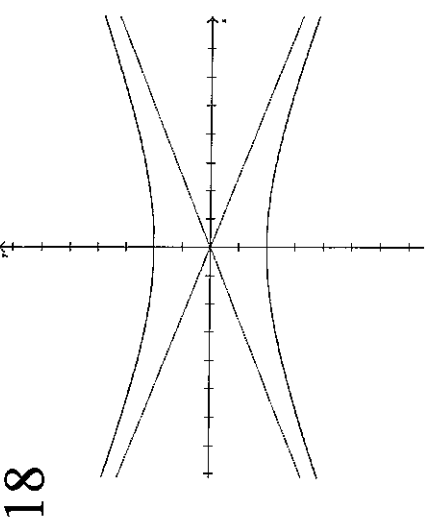
#	H	$y = -(x+1)^2$	<p>Vertex is $(-1, 0)$ Opens down Focus is $(-1, -\frac{1}{4})$ Directrix is $y = \frac{1}{4}$</p>		2
@	K	$x = -(y+1)^2$	<p>Vertex is $(0, -1)$ Opens left Focus is $(-\frac{1}{4}, -1)$ Directrix is $x = \frac{1}{4}$</p>		4
%	A	$y = (x-3)^2 - 2$	<p>Vertex is $(3, -2)$ Opens up Focus is $(3, -1\frac{3}{4})$ Directrix is $y = -2\frac{1}{4}$</p>		5

●	$x = 2(y-1)^2 + 2$	S	<p>Vertex is (2, 1) Opens right Focus is $(2\frac{1}{8}, 1)$ Directrix is $x = 1\frac{7}{8}$</p>	10	
■	$y = 2(x+3)^2 - 1$	Q	<p>Vertex is (-3, -1) Opens up Focus is $(-3, -\frac{7}{8})$ Directrix is $y = -1\frac{1}{8}$</p>	20	
>	$(x-2)^2 + (y-3)^2 = 4$	D	<p>Center is (2, 3) Radius is 2</p>	12	

	$x^2 + y^2 = 16$	<p>L</p> <p>Center is (0, 0) Radius is 4</p>	<p>6</p> 
<p><</p>	$(x+4)^2 + (y+2)^2 = 4$	<p>N</p> <p>Center is (-4, -2) Radius is 2</p>	<p>17</p> 
	$(x+1)^2 + (y-3)^2 = 1$	<p>R</p> <p>Center is (-1, 3) Radius is 1</p>	<p>14</p> 

?	$(x-3)^2 + y^2 = 9$	O	Center is (3, 0) Radius is 3	9	
♡	$\frac{(x-3)^2}{4} + \frac{(y+1)^2}{9} = 1$	F	Center is (3, -1) Major axis is parallel to the y-axis Length of the major axis is 6 Length of the minor axis is 4	19	
!	$\frac{(x+1)^2}{16} + \frac{(y-1)^2}{4} = 1$	C	Center is (-1, 1) Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 4	13	

 $\frac{(x-2)^2}{9} + \frac{(y+1)^2}{16} = 1$	<p>E</p> <p>Center is (2, -1) Major axis is parallel to the y-axis Length of the major axis is 8 Length of the minor axis is 6</p>	<p>15</p> 
 $\frac{(x+3)^2}{25} + \frac{(y-1)^2}{4} = 1$	<p>B</p> <p>Center is (-3, 1) Major axis is parallel to the x-axis Length of the major axis is 10 Length of the minor axis is 4</p>	<p>11</p> 
 $\frac{x^2}{36} + \frac{y^2}{4} = 1$	<p>J</p> <p>Center is (0, 0) Major axis lies on the x-axis Length of the major axis is 12 Length of the minor axis is 4</p>	<p>1</p> 

 $\frac{y^2}{9} - \frac{x^2}{16} = 1$	<p>G</p> <p>Center is (0, 0) Asymptotes are $y = \frac{3}{4}x$ and $y = -\frac{3}{4}x$ Vertices are (0, 3) and (0, -3)</p>	<p>16</p> 
<p>&</p> $\frac{x^2}{25} - \frac{y^2}{9} = 1$	<p>T</p> <p>Center is (0, 0) Asymptotes are $y = \frac{3}{5}x$ and $y = -\frac{3}{5}x$ Vertices are (5, 0) and (-5, 0)</p>	<p>7</p> 
<p>~</p> $\frac{y^2}{4} - \frac{x^2}{25} = 1$	<p>P</p> <p>Center is (0, 0) Asymptotes are $y = \frac{2}{5}x$ and $y = -\frac{2}{5}x$ Vertices are (0, 2) and (0, -2)</p>	<p>18</p> 

<div data-bbox="121 1869 203 1963" data-label="Image"> </div> <div data-bbox="284 1575 389 1764" data-label="Equation-Block"> $\frac{x^2}{16} - \frac{y^2}{9} = 1$ </div>	<div data-bbox="146 1270 203 1333" data-label="Text"> <p>M</p> </div> <div data-bbox="251 798 381 1291" data-label="Text"> <p>Center is (0, 0) Asymptotes are $y = \frac{3}{4}x$ and $y = -\frac{3}{4}x$ Vertices are (4, 0) and (-4, 0)</p> </div>	<div data-bbox="138 651 194 703" data-label="Text"> <p>8</p> </div> <div data-bbox="105 178 544 651" data-label="Figure"> </div>
<div data-bbox="592 1911 649 1963" data-label="Text"> <p>\$</p> </div> <div data-bbox="706 1575 812 1764" data-label="Equation-Block"> $x^2 - \frac{y^2}{4} = 1$ </div>	<div data-bbox="592 1302 649 1344" data-label="Text"> <p>I</p> </div> <div data-bbox="706 798 836 1291" data-label="Text"> <p>Center is (0, 0) Asymptotes are $y = 2x$ and $y = -2x$ Vertices are (1, 0) and (-1, 0)</p> </div>	<div data-bbox="584 651 641 703" data-label="Text"> <p>3</p> </div> <div data-bbox="560 178 998 651" data-label="Figure"> </div>
<div data-bbox="1218 1575 1274 1764" data-label="Text"> <p>Hyperbola</p> </div>	<div data-bbox="1088 955 1177 1134" data-label="Equation-Block"> $\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ </div> <div data-bbox="1209 798 1412 1291" data-label="Text"> <p>Center is (0, 0) Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (0, b) and (0, -b)</p> </div>	<div data-bbox="1096 325 1185 504" data-label="Equation-Block"> $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ </div> <div data-bbox="1209 168 1412 661" data-label="Text"> <p>Center is (0, 0) Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (a, 0) and (-a, 0)</p> </div>

<p>Ellipse</p>	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$ <p>Center is (h, k)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ <p>Center is (0, 0)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>
<p>Circle</p>	$(x-h)^2 + (y-k)^2 = r^2$ <p>Center is (h, k)</p> <p>Radius is r</p>	$x^2 + y^2 = r^2$ <p>Center is (0, 0)</p> <p>Radius is r</p>
<p>Parabola</p>	$y = a(x-h)^2 + k$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens up. If $a < 0$, it opens down.</p> <p>Focus is $(h, k + \frac{1}{4a})$</p> <p>Directrix is $y = k - \frac{1}{4a}$</p>	$x = a(y-k)^2 + h$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens right. If $a < 0$, it opens left.</p> <p>Focus is $(h + \frac{1}{4a}, k)$</p> <p>Directrix is $x = h - \frac{1}{4a}$</p>

Conic Cards

Deck #6

Conic Cards Deck #6

Parabolas

2	G	■
8	A	▲
12	B	<
13	I	●
15	E	♡

Circles

1	Q	▲
5	S	☺
9	K	?
11	T	%
19	P	>

Ellipse

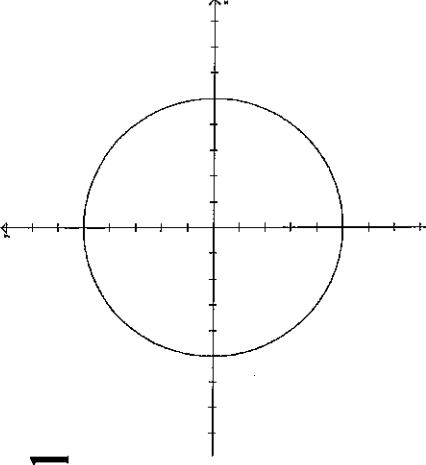

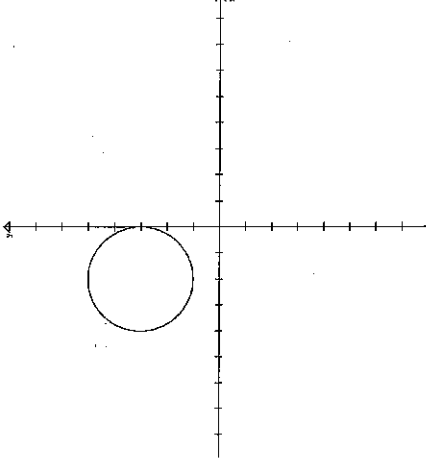
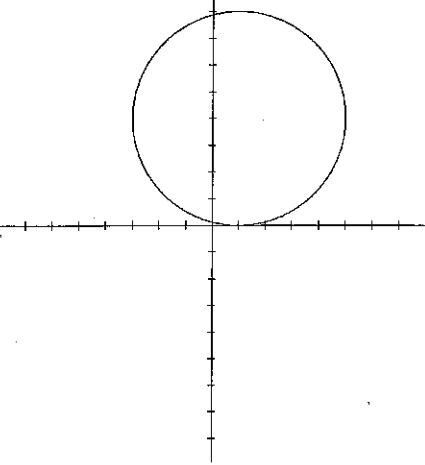
3	C	\$
4	O	★
6	J	#
10	H	◆
17	R	◆

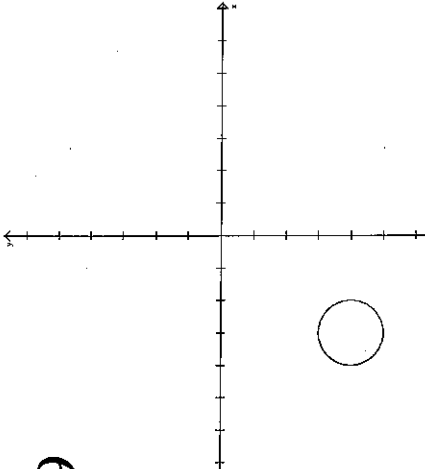
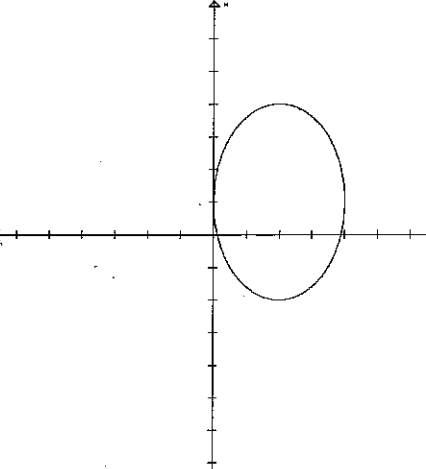

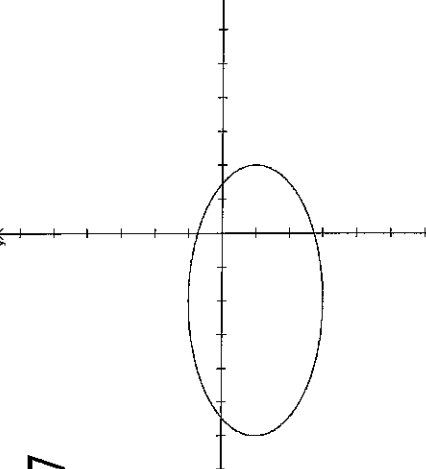
Hyperbola

7	D	@
14	N	~
16	M	!
18	L	&
20	F	■

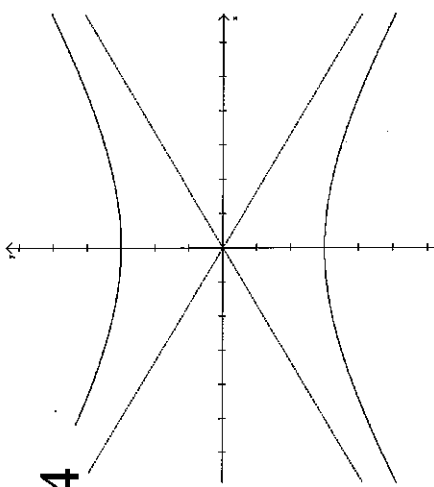
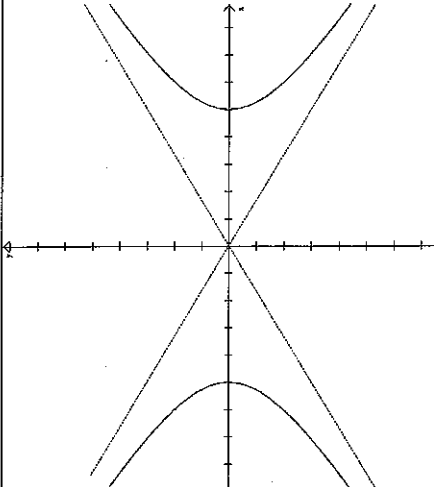
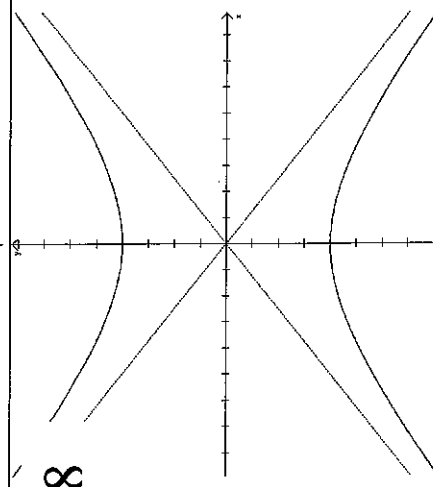
<div data-bbox="138 1911 194 1963" data-label="Image"></div> $y = x^2$	<div data-bbox="162 1249 219 1312" data-label="Text">G</div> <div data-bbox="227 913 406 1165" data-label="Text"> <p>Vertex is (0, 0) Opens up Focus is $(0, \frac{1}{4})$ Directrix is $y = -\frac{1}{4}$</p> </div> <div data-bbox="162 640 219 703" data-label="Text">2</div> <div data-bbox="154 199 552 630" data-label="Figure"></div>
<div data-bbox="584 1911 641 1963" data-label="Image"></div> $x = y^2 + 5$	<div data-bbox="609 1291 665 1333" data-label="Text">I</div> <div data-bbox="722 913 893 1165" data-label="Text"> <p>Vertex is (5, 0) Opens right Focus is $(5\frac{1}{4}, 0)$ Directrix is $x = 4\frac{3}{4}$</p> </div> <div data-bbox="609 619 665 693" data-label="Text">13</div> <div data-bbox="584 178 1031 651" data-label="Figure"></div>
<div data-bbox="1063 1900 1112 1953" data-label="Text"><</div> $x = 2(y - 1)^2 - 2$	<div data-bbox="1055 1281 1112 1333" data-label="Text">B</div> <div data-bbox="1169 903 1347 1176" data-label="Text"> <p>Vertex is (-2, 1) Opens right Focus is $(-1\frac{7}{8}, 1)$ Directrix is $x = -2\frac{1}{8}$</p> </div> <div data-bbox="1055 619 1112 693" data-label="Text">12</div> <div data-bbox="1031 178 1485 661" data-label="Figure"></div>

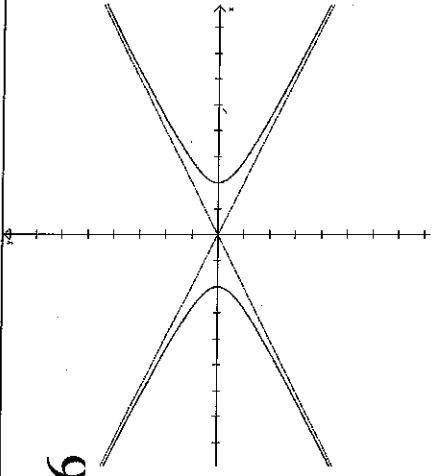
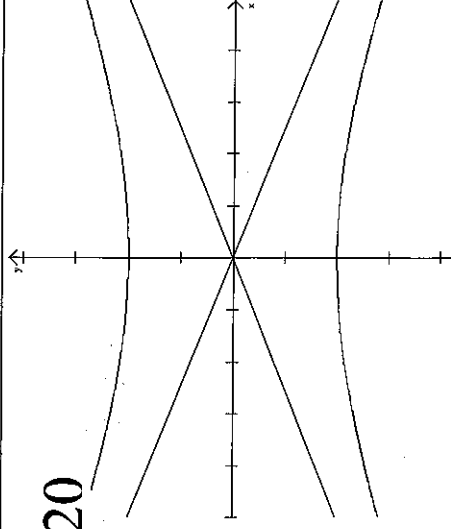
<div data-bbox="138 1879 219 1953" data-label="Text"> <p>G</p> </div> <div data-bbox="300 1533 365 1795" data-label="Equation-Block"> $x = -(y+1)^2 + 3$ </div>	<div data-bbox="154 1260 211 1312" data-label="Text"> <p>E</p> </div> <div data-bbox="227 913 397 1165" data-label="Text"> <p>Vertex is (3, -1) Opens left Focus is $(2\frac{3}{4}, -1)$ Directrix is $x = 3\frac{1}{4}$</p> </div>	<div data-bbox="154 619 219 693" data-label="Text"> <p>15</p> </div> <div data-bbox="267 168 487 661" data-label="Figure"> </div>
<div data-bbox="584 1879 673 1963" data-label="Image"> </div> <div data-bbox="755 1533 820 1795" data-label="Equation-Block"> $y = -2(x-1)^2 + 1$ </div>	<div data-bbox="609 1270 665 1333" data-label="Text"> <p>A</p> </div> <div data-bbox="682 913 852 1165" data-label="Text"> <p>Vertex is (1, 1) Opens down Focus is $(1, \frac{7}{8})$ Directrix is $y = 1\frac{1}{8}$</p> </div>	<div data-bbox="609 640 665 693" data-label="Text"> <p>8</p> </div> <div data-bbox="763 168 1031 661" data-label="Figure"> </div>
<div data-bbox="1039 1879 1120 1963" data-label="Image"> </div> <div data-bbox="1177 1501 1242 1827" data-label="Equation-Block"> $(x-5)^2 + (y-1)^2 = 9$ </div>	<div data-bbox="1055 1281 1112 1333" data-label="Text"> <p>S</p> </div> <div data-bbox="1209 934 1291 1144" data-label="Text"> <p>Center is (5, 1) Radius is 3</p> </div>	<div data-bbox="1055 640 1112 693" data-label="Text"> <p>5</p> </div> <div data-bbox="1144 168 1323 661" data-label="Figure"> </div>

<p>%</p> $x^2 + y^2 = 25$	<p>T</p> <p>Center is (0, 0) Radius is 5</p>	<p>11</p> 
 $(x + 2)^2 + (y - 3)^2 = 4$	<p>Q</p> <p>Center is (-2, 3) Radius is 2</p>	<p>1</p> 
<p>?</p> $(x - 4)^2 + (y + 1)^2 = 16$	<p>K</p> <p>Center is (4, -1) Radius is 4</p>	<p>9</p> 

<p>></p> $(x+3)^2 + (y+4)^2 = 1$	<p>P</p> <p>Center is (-3, -4) Radius is 1</p>	<p>19</p> 
<p>#</p> $\frac{(x-1)^2}{9} + \frac{(y+2)^2}{4} = 1$	<p>J</p> <p>Center is (1, -2) Major axis is parallel to the x-axis Length of the major axis is 6 Length of the minor axis is 4</p>	<p>6</p> 
 $\frac{(x+2)^2}{16} + \frac{(y+1)^2}{4} = 1$	<p>R</p> <p>Center is (-2, -1) Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 4</p>	<p>17</p> 

<div data-bbox="142 1890 214 1963" data-label="Image"></div> <div data-bbox="272 1507 360 1816" data-label="Equation-Block"> $\frac{(x-3)^2}{25} + \frac{(y+1)^2}{4} = 1$ </div>	<div data-bbox="165 1285 207 1327" data-label="Text">H</div> <div data-bbox="305 823 446 1255" data-label="Text"> <p>Center is (3, -1) Major axis is parallel to the x-axis Length of the major axis is 10 Length of the minor axis is 4</p> </div> <div data-bbox="165 634 207 682" data-label="Text">10</div> <div data-bbox="311 178 418 646" data-label="Figure"> </div>
<div data-bbox="592 1890 669 1963" data-label="Image"></div> <div data-bbox="727 1507 815 1816" data-label="Equation-Block"> $\frac{(x-1)^2}{4} + \frac{(y-2)^2}{9} = 1$ </div>	<div data-bbox="617 1264 659 1306" data-label="Text">O</div> <div data-bbox="727 823 868 1255" data-label="Text"> <p>Center is (1, 2) Major axis is parallel to the y-axis Length of the major axis is 6 Length of the minor axis is 4</p> </div> <div data-bbox="617 655 659 697" data-label="Text">4</div> <div data-bbox="620 199 815 630" data-label="Figure"> </div>
<div data-bbox="1063 1915 1107 1942" data-label="Text">\$</div> <div data-bbox="1221 1585 1302 1738" data-label="Equation-Block"> $\frac{x^2}{4} + \frac{y^2}{16} = 1$ </div>	<div data-bbox="1063 1285 1107 1327" data-label="Text">C</div> <div data-bbox="1144 850 1286 1222" data-label="Text"> <p>Center is (0, 0) Major axis lies on the y-axis Length of the major axis is 8 Length of the minor axis is 4</p> </div> <div data-bbox="1063 655 1107 697" data-label="Text">3</div> <div data-bbox="1112 178 1388 640" data-label="Figure"> </div>

~	$\frac{y^2}{9} - \frac{x^2}{25} = 1$	<p>N</p> <p>Center is (0, 0) Asymptotes are $y = \frac{2}{5}x$ and $y = -\frac{2}{5}x$ Vertices are (0, 3) and (0, -3)</p>	<p>14</p> 
@	$\frac{x^2}{25} - \frac{y^2}{9} = 1$	<p>D</p> <p>Center is (0, 0) Asymptotes are $y = \frac{3}{5}x$ and $y = -\frac{3}{5}x$ Vertices are (5, 0) and (-5, 0)</p>	<p>7</p> 
&	$\frac{y^2}{16} - \frac{x^2}{25} = 1$	<p>L</p> <p>Center is (0, 0) Asymptotes are $y = \frac{4}{5}x$ and $y = -\frac{4}{5}x$ Vertices are (0, 4) and (0, -4)</p>	<p>18</p> 


!	$\frac{x^2}{4} - y^2 = 1$	<p>M</p> <p>Center is (0, 0) Asymptotes are $y = \frac{1}{2}x$ and $y = -\frac{1}{2}x$ Vertices are (2, 0) and (-2, 0)</p>	<p>16</p> 
■	$\frac{y^2}{4} - \frac{x^2}{25} = 1$	<p>F</p> <p>Center is (0, 0) Asymptotes are $y = \frac{2}{5}x$ and $y = -\frac{2}{5}x$ Vertices are (0, 2) and (0, -2)</p>	<p>20</p> 
	<p>Hyperbola</p>	$\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ <p>Center is (0, 0) Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (0, b) and (0, -b)</p>	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ <p>Center is (0, 0) Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (a, 0) and (-a, 0)</p>

Ellipse	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$ <p>Center is (h, k)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ <p>Center is (0, 0)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>
Circle	$(x-h)^2 + (y-k)^2 = r^2$ <p>Center is (h, k)</p> <p>Radius is r</p>	$x^2 + y^2 = r^2$ <p>Center is (0, 0)</p> <p>Radius is r</p>
Parabola	$y = a(x-h)^2 + k$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens up. If $a < 0$, it opens down.</p> <p>Focus is $(h, k + \frac{1}{4a})$</p> <p>Directrix is $y = k - \frac{1}{4a}$</p>	$x = a(y-k)^2 + h$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens right. If $a < 0$, it opens left.</p> <p>Focus is $(h + \frac{1}{4a}, k)$</p> <p>Directrix is $x = h - \frac{1}{4a}$</p>

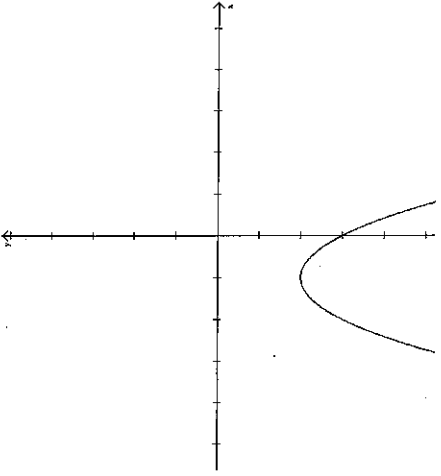
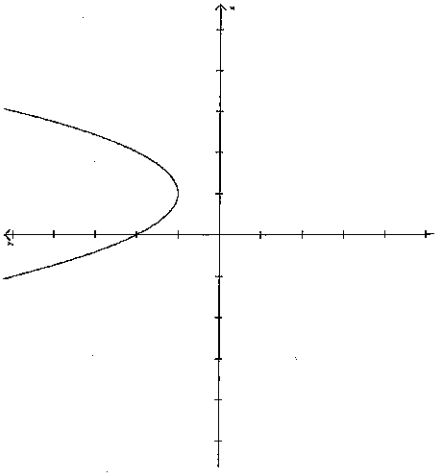
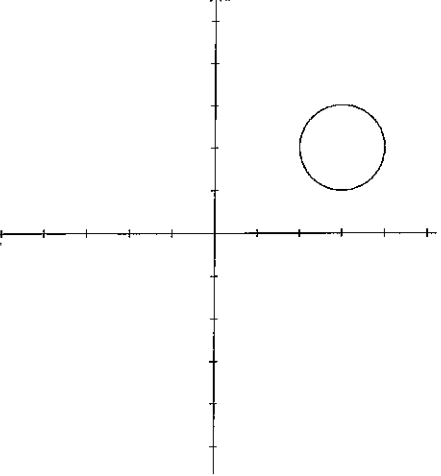
Conic Cards

Deck #7

Conic Cards Deck #7


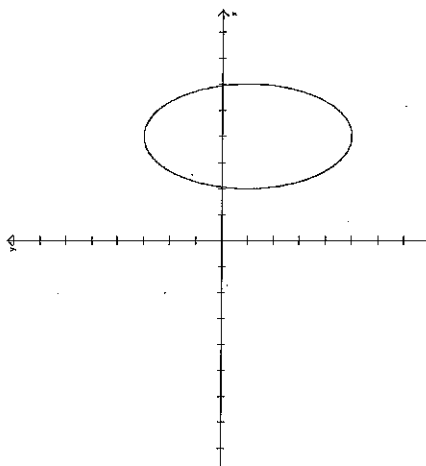

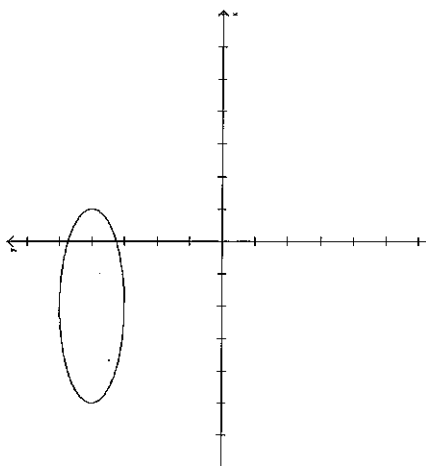

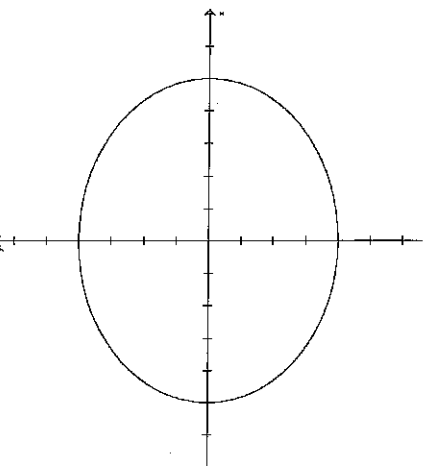
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 J 13				@ H 9				? F 16				★ Q 17			
! B 10				◆ K 4				▴ E 12				⬠ R 5			
♡ I 14				\$ C 20				▲ M 19				< S 6			
~ T 11				# D 8				● G 15				& P 18			
% A 3				■ N 7				> L 2				😊 O 1			

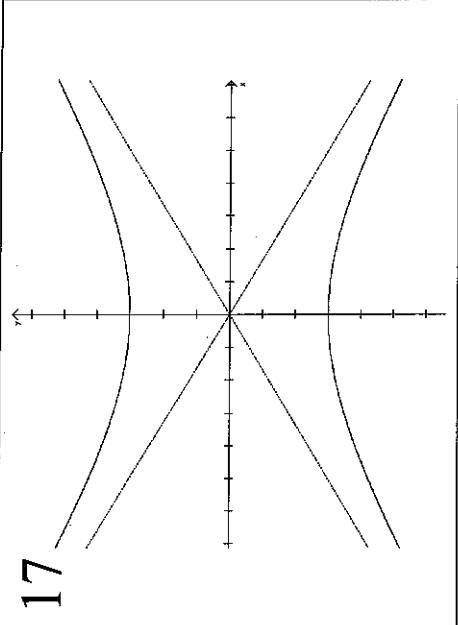
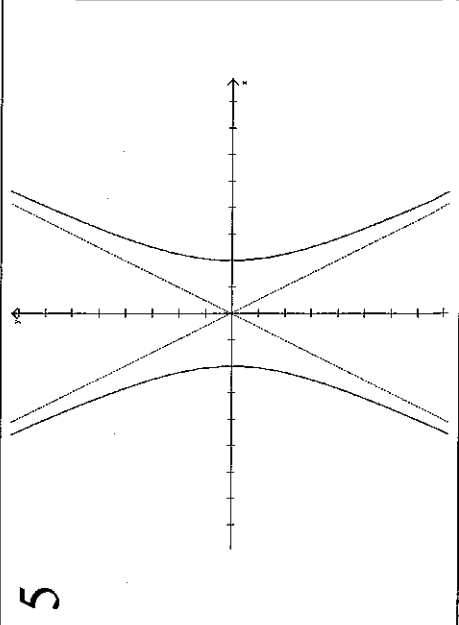
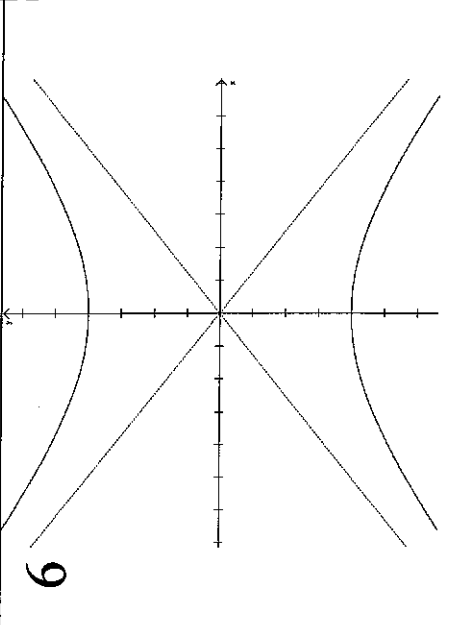
<div data-bbox="138 1890 191 1963" data-label="Image"></div> <div data-bbox="267 1560 332 1759" data-label="Equation-Block"> $y = (x+1)^2$ </div>	<div data-bbox="159 1297 207 1327" data-label="Text"> <p>J</p> </div> <div data-bbox="264 909 430 1161" data-label="Text"> <p>Vertex is $(-1, 0)$ Opens up Focus is $(-1, \frac{1}{4})$ Directrix is $y = -\frac{1}{4}$</p> </div>	<div data-bbox="138 651 186 703" data-label="Text"> <p>13</p> </div> <div data-bbox="129 178 568 640" data-label="Figure"> </div>
<div data-bbox="613 1921 657 1942" data-label="Text"> <p>!</p> </div> <div data-bbox="760 1507 820 1812" data-label="Equation-Block"> $x = -2(y-3)^2 + 1$ </div>	<div data-bbox="613 1281 662 1327" data-label="Text"> <p>B</p> </div> <div data-bbox="682 919 847 1155" data-label="Text"> <p>Vertex is $(1, 3)$ Opens left Focus is $(\frac{7}{8}, 3)$ Directrix is $x = 1\frac{1}{8}$</p> </div>	<div data-bbox="597 625 646 678" data-label="Text"> <p>10</p> </div> <div data-bbox="584 178 1006 640" data-label="Figure"> </div>
<div data-bbox="1036 1858 1117 1963" data-label="Image"></div> <div data-bbox="1182 1560 1242 1759" data-label="Equation-Block"> $x = y^2 - 1$ </div>	<div data-bbox="1060 1297 1109 1327" data-label="Text"> <p>I</p> </div> <div data-bbox="1174 909 1339 1161" data-label="Text"> <p>Vertex is $(-1, 0)$ Opens right Focus is $(-\frac{3}{4}, 0)$ Directrix is $x = -1\frac{1}{4}$</p> </div>	<div data-bbox="1060 646 1109 699" data-label="Text"> <p>14</p> </div> <div data-bbox="1039 168 1477 640" data-label="Figure"> </div>

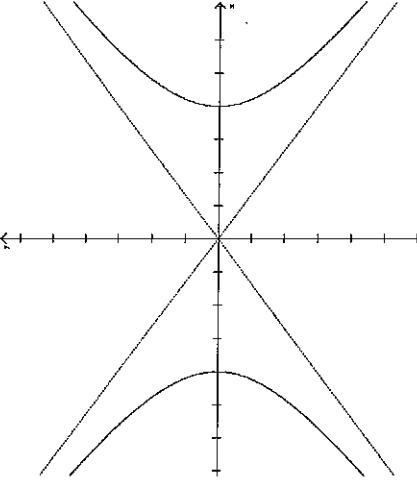

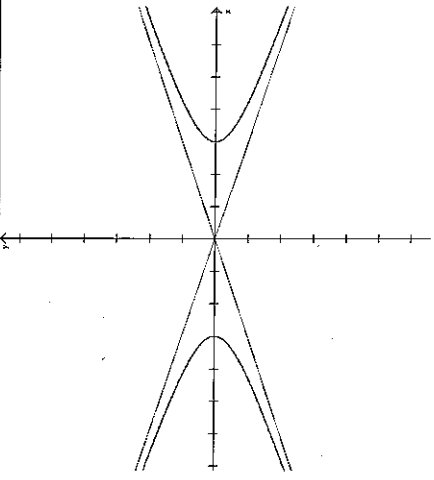
~	$y = -(x+1)^2 - 2$	<p>T</p> <p>Vertex is (-1, -2) Opens down Focus is $(-1, -2\frac{1}{4})$ Directrix is $y = -1\frac{3}{4}$</p>	<p>11</p> 
%	$y = (x-1)^2 + 1$	<p>A</p> <p>Vertex is (1, 1) Opens up Focus is $(1, 1\frac{1}{4})$ Directrix is $y = \frac{3}{4}$</p>	<p>3</p> 
@	$(x-2)^2 + (y+3)^2 = 1$	<p>H</p> <p>Center is (2, -3) Radius is 1</p>	<p>9</p> 

<div data-bbox="138 1885 215 1963" data-label="Image"></div> <div data-bbox="272 1575 316 1753" data-label="Equation-Block"> $x^2 + y^2 = 1$ </div> <div data-bbox="162 1276 212 1329" data-label="Text"> <p>K</p> </div> <div data-bbox="305 940 375 1129" data-label="Text"> <p>Center is (0, 0) Radius is 1</p> </div> <div data-bbox="168 653 215 688" data-label="Text"> <p>4</p> </div> <div data-bbox="126 178 560 646" data-label="Figure"> </div>	
<div data-bbox="613 1911 662 1942" data-label="Text"> <p>\$</p> </div> <div data-bbox="760 1512 803 1816" data-label="Equation-Block"> $(x + 2)^2 + (y - 2)^2 = 9$ </div> <div data-bbox="613 1283 662 1325" data-label="Text"> <p>C</p> </div> <div data-bbox="760 934 829 1134" data-label="Text"> <p>Center is (-2, 2) Radius is 3</p> </div> <div data-bbox="597 625 646 688" data-label="Text"> <p>20</p> </div> <div data-bbox="618 186 868 636" data-label="Figure"> </div>	
<div data-bbox="1063 1911 1112 1942" data-label="Text"> <p>#</p> </div> <div data-bbox="1214 1512 1258 1816" data-label="Equation-Block"> $(x - 3)^2 + (y - 1)^2 = 4$ </div> <div data-bbox="1063 1283 1112 1325" data-label="Text"> <p>D</p> </div> <div data-bbox="1214 940 1284 1129" data-label="Text"> <p>Center is (3, 1) Radius is 2</p> </div> <div data-bbox="1068 678 1117 709" data-label="Text"> <p>8</p> </div> <div data-bbox="1040 172 1485 651" data-label="Figure"> </div>	

<div data-bbox="142 1900 198 1959" data-label="Image"></div> <div data-bbox="300 1491 349 1831" data-label="Equation-Block"> $(x+2)^2 + (y+1)^2 = 4$ </div>	<div data-bbox="159 1276 203 1327" data-label="Text"> <p>N</p> </div> <div data-bbox="300 930 365 1140" data-label="Text"> <p>Center is (-2, -1) Radius is 2</p> </div>	<div data-bbox="162 678 206 709" data-label="Text"> <p>7</p> </div> <div data-bbox="129 176 561 646" data-label="Figure"> </div>
<div data-bbox="605 1913 649 1944" data-label="Text"> <p>?</p> </div> <div data-bbox="722 1509 812 1812" data-label="Equation-Block"> $\frac{(x-3)^2}{16} + \frac{(y-1)^2}{4} = 1$ </div>	<div data-bbox="609 1289 652 1327" data-label="Text"> <p>F</p> </div> <div data-bbox="719 819 860 1251" data-label="Text"> <p>Center is (3, 1) Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 4</p> </div>	<div data-bbox="625 646 669 705" data-label="Text"> <p>16</p> </div> <div data-bbox="581 176 1013 646" data-label="Figure"> </div>
<div data-bbox="1031 1862 1075 1963" data-label="Image"></div> <div data-bbox="1174 1518 1263 1808" data-label="Equation-Block"> $\frac{(x+1)^2}{16} + \frac{(y+1)^2}{9} = 1$ </div>	<div data-bbox="1060 1285 1104 1327" data-label="Text"> <p>E</p> </div> <div data-bbox="1174 819 1315 1251" data-label="Text"> <p>Center is (-1, -1) Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 6</p> </div>	<div data-bbox="1096 617 1140 674" data-label="Text"> <p>12</p> </div> <div data-bbox="1031 176 1463 646" data-label="Figure"> </div>

 $\frac{(x-4)^2}{4} + \frac{(y+1)^2}{16} = 1$	<p>M</p> <p>Center is (4, -1) Major axis is parallel to the y-axis Length of the major axis is 8 Length of the minor axis is 4</p>	<p>19</p> 
 $\frac{(x+2)^2}{9} + \frac{(y-4)^2}{16} = 1$	<p>G</p> <p>Center is (-2, 4) Major axis is parallel to the y-axis Length of the major axis is 8 Length of the minor axis is 6</p>	<p>15</p> 
 $\frac{x^2}{25} + \frac{y^2}{16} = 1$	<p>L</p> <p>Center is (0, 0) Major axis lies on the x-axis Length of the major axis is 10 Length of the minor axis is 8</p>	<p>2</p> 

★	$\frac{y^2}{9} - \frac{x^2}{25} = 1$	<p>Q</p> <p>Center is (0, 0) Asymptotes are $y = \frac{3}{5}x$ and $y = -\frac{3}{5}x$ Vertices are (0, 3) and (0, -3)</p>	<p>17</p> 
⬠	$\frac{x^2}{4} - \frac{y^2}{16} = 1$	<p>R</p> <p>Center is (0, 0) Asymptotes are $y = \frac{4}{2}x$ and $y = -\frac{4}{2}x$, which are equal to $y = 2x$ and $y = -2x$ Vertices are (2, 0) and (-2, 0)</p>	<p>5</p> 
<	$\frac{y^2}{16} - \frac{x^2}{25} = 1$	<p>S</p> <p>Center is (0, 0) Asymptotes are $y = \frac{4}{5}x$ and $y = -\frac{4}{5}x$ Vertices are (0, 4) and (0, -4)</p>	<p>6</p> 

<p data-bbox="164 1885 212 1938">&</p> $\frac{x^2}{16} - \frac{y^2}{9} = 1$	<p data-bbox="164 1283 212 1325">P</p> <p data-bbox="269 793 391 1272">Center is (0, 0) Asymptotes are $y = \frac{3}{4}x$ and $y = -\frac{3}{4}x$ Vertices are (4, 0) and (-4, 0)</p>	<p data-bbox="147 646 196 699">18</p> 
 $\frac{x^2}{9} - y^2 = 1$	<p data-bbox="594 1276 643 1325">O</p> <p data-bbox="748 793 870 1272">Center is (0, 0) Asymptotes are $y = \frac{1}{3}x$ and $y = -\frac{1}{3}x$ Vertices are (3, 0) and (-3, 0)</p>	<p data-bbox="610 646 659 699">1</p> 
<p data-bbox="1235 1570 1284 1749">Hyperbola</p>	$\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ <p data-bbox="1227 940 1268 1129">Center is (0, 0)</p> <p data-bbox="1300 793 1341 1272">Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$</p> <p data-bbox="1382 846 1422 1220">Vertices are (0, b) and (0, -b)</p>	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ <p data-bbox="1227 310 1268 499">Center is (0, 0)</p> <p data-bbox="1300 163 1341 642">Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$</p> <p data-bbox="1382 216 1422 590">Vertices are (a, 0) and (-a, 0)</p>

<p>Ellipse</p>	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$ <p>Center is (h, k)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ <p>Center is (0, 0)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>
<p>Circle</p>	$(x-h)^2 + (y-k)^2 = r^2$ <p>Center is (h, k)</p> <p>Radius is r</p>	$x^2 + y^2 = r^2$ <p>Center is (0, 0)</p> <p>Radius is r</p>
<p>Parabola</p>	$y = a(x-h)^2 + k$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens up. If $a < 0$, it opens down.</p> <p>Focus is $(h, k + \frac{1}{4a})$</p> <p>Directrix is $y = k - \frac{1}{4a}$</p>	$x = a(y-k)^2 + h$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens right. If $a < 0$, it opens left.</p> <p>Focus is $(h + \frac{1}{4a}, k)$</p> <p>Directrix is $x = h - \frac{1}{4a}$</p>

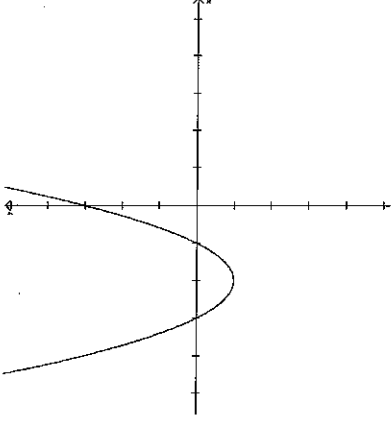
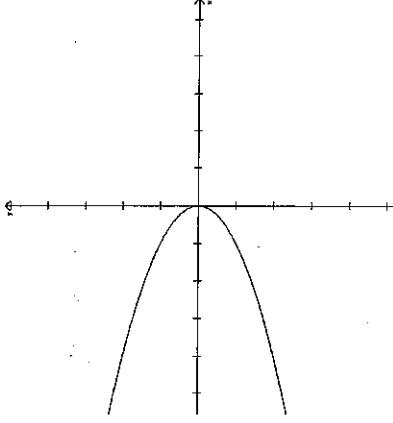
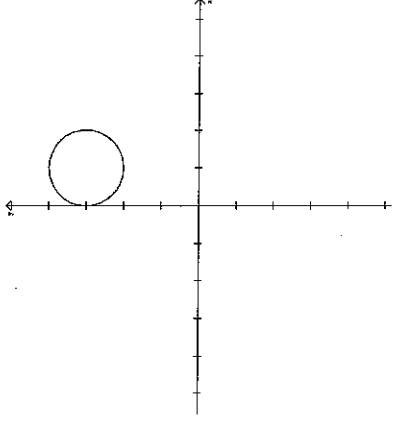
Conic Cards

Deck #8

Conic Cards Deck #8

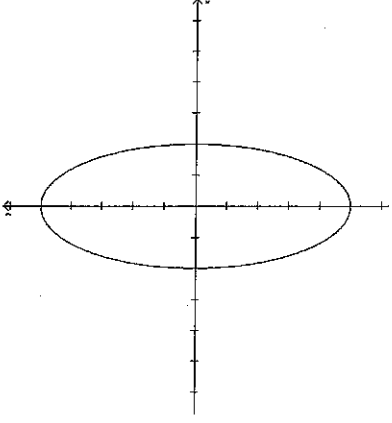
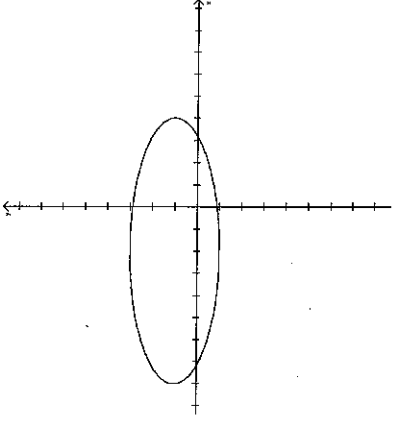
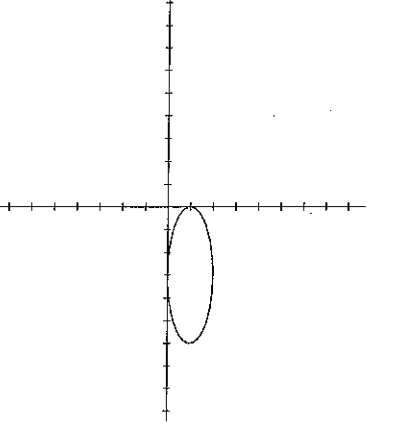
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\$	S	13	■	B	14	!	O	16	<	F	18
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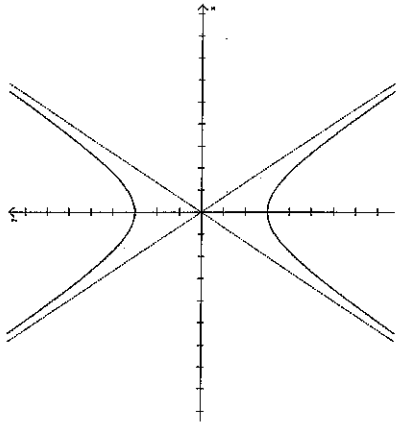
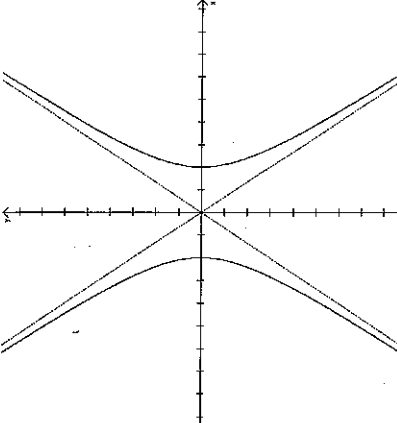
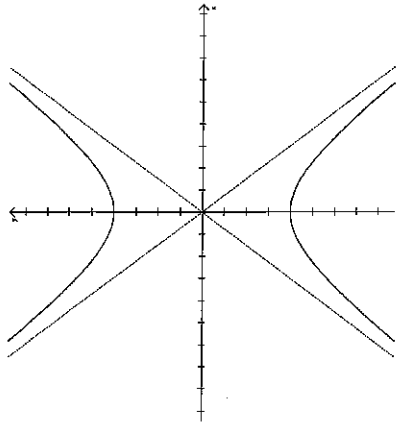
<div data-bbox="167 1885 224 1942" data-label="Text"> <p>@</p> </div> <div data-bbox="310 1602 367 1719" data-label="Equation-Block"> $y = x^2$ </div> <div data-bbox="167 1266 215 1327" data-label="Text"> <p>M</p> </div> <div data-bbox="269 909 435 1161" data-label="Text"> <p>Vertex is (0, 0) Opens up Focus is $(0, \frac{1}{4})$ Directrix is $y = -\frac{1}{4}$</p> </div> <div data-bbox="159 625 207 682" data-label="Text"> <p>12</p> </div> <div data-bbox="126 199 516 619" data-label="Figure"> </div>	<div data-bbox="594 1885 670 1963" data-label="Image"> </div> <div data-bbox="768 1528 820 1812" data-label="Equation-Block"> $x = 2(y - 1)^2 + 3$ </div> <div data-bbox="618 1283 667 1325" data-label="Text"> <p>T</p> </div> <div data-bbox="724 909 889 1161" data-label="Text"> <p>Vertex is (3, 1) Opens right Focus is $(3\frac{1}{8}, 1)$ Directrix is $x = 2\frac{7}{8}$</p> </div> <div data-bbox="613 625 662 682" data-label="Text"> <p>17</p> </div> <div data-bbox="581 199 982 619" data-label="Figure"> </div>	<div data-bbox="1065 1906 1114 1942" data-label="Text"> <p>\$</p> </div> <div data-bbox="1219 1522 1271 1795" data-label="Equation-Block"> $y = -2(x + 1)^2 + 2$ </div> <div data-bbox="1065 1287 1114 1325" data-label="Text"> <p>S</p> </div> <div data-bbox="1179 909 1344 1161" data-label="Text"> <p>Vertex is (-1, 2) Opens down Focus is $(-1, 1\frac{7}{8})$ Directrix is $y = 2\frac{1}{8}$</p> </div> <div data-bbox="1060 625 1109 682" data-label="Text"> <p>13</p> </div> <div data-bbox="1036 199 1425 619" data-label="Figure"> </div>
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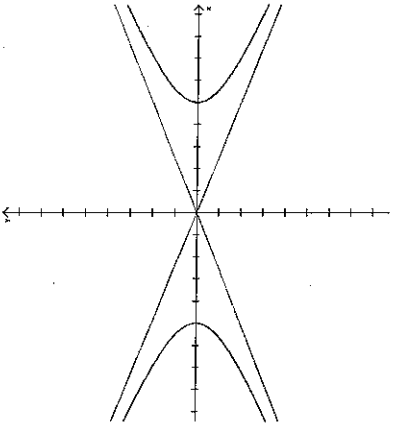
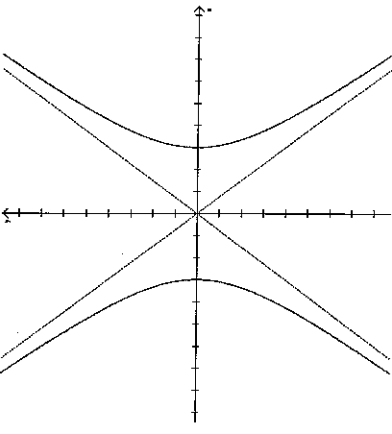
?	$y = (x + 2)^2 - 1$	P	<p>Vertex is $(-2, -1)$ Opens up Focus is $(-2, -\frac{3}{4})$ Directrix is $y = -1\frac{1}{4}$</p>	19	
#	$x = -y^2$	Q	<p>Vertex is $(0, 0)$ Opens left Focus is $(-\frac{1}{4}, 0)$ Directrix is $x = \frac{1}{4}$</p>	2	
%	$(x - 1)^2 + (y - 3)^2 = 1$	J	<p>Center is $(1, 3)$ Radius is 1</p>	4	

<div data-bbox="142 1885 215 1959" data-label="Image"></div> <div data-bbox="305 1570 354 1749" data-label="Equation-Block"> $x^2 + y^2 = 9$ </div>	<div data-bbox="167 1297 215 1329" data-label="Text"> <p>I</p> </div> <div data-bbox="305 940 378 1129" data-label="Text"> <p>Center is (0, 0) Radius is 3</p> </div>	<div data-bbox="167 678 215 709" data-label="Text"> <p>3</p> </div> <div data-bbox="167 205 540 615" data-label="Figure"> </div>
<div data-bbox="589 1906 646 1959" data-label="Image"></div> <div data-bbox="768 1507 816 1812" data-label="Equation-Block"> $(x + 2)^2 + (y + 2)^2 = 4$ </div>	<div data-bbox="621 1287 670 1329" data-label="Text"> <p>B</p> </div> <div data-bbox="768 930 833 1140" data-label="Text"> <p>Center is (-2, -2) Radius is 2</p> </div>	<div data-bbox="621 646 670 709" data-label="Text"> <p>14</p> </div> <div data-bbox="621 205 1003 615" data-label="Figure"> </div>
<div data-bbox="1068 1906 1109 1948" data-label="Text"> <p>></p> </div> <div data-bbox="1255 1507 1304 1812" data-label="Equation-Block"> $(x - 2)^2 + (y + 3)^2 = 4$ </div>	<div data-bbox="1068 1287 1117 1329" data-label="Text"> <p>C</p> </div> <div data-bbox="1255 930 1320 1140" data-label="Text"> <p>Center is (2, -3) Radius is 2</p> </div>	<div data-bbox="1060 636 1109 688" data-label="Text"> <p>11</p> </div> <div data-bbox="1044 205 1417 615" data-label="Figure"> </div>

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<div data-bbox="578 1900 633 1957" data-label="Image"></div> <div data-bbox="716 1503 812 1806" data-label="Equation-Block"> $\frac{(x-4)^2}{4} + \frac{(y+1)^2}{16} = 1$ </div> <div data-bbox="604 1270 652 1320" data-label="Text"> <p>A</p> </div> <div data-bbox="716 810 860 1247" data-label="Text"> <p>Center is $(4, -1)$ Major axis is parallel to the y-axis Length of the major axis is 8 Length of the minor axis is 4</p> </div> <div data-bbox="600 642 649 682" data-label="Text"> <p>6</p> </div> <div data-bbox="578 195 961 611" data-label="Figure"> </div>	
<div data-bbox="1026 1879 1107 1957" data-label="Image"></div> <div data-bbox="1170 1507 1260 1803" data-label="Equation-Block"> $\frac{(x-1)^2}{16} + \frac{(y-2)^2}{4} = 1$ </div> <div data-bbox="1053 1270 1102 1320" data-label="Text"> <p>H</p> </div> <div data-bbox="1170 810 1313 1247" data-label="Text"> <p>Center is $(1, 2)$ Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 4</p> </div> <div data-bbox="1058 642 1107 701" data-label="Text"> <p>10</p> </div> <div data-bbox="1058 195 1445 611" data-label="Figure"> </div>	

<p>!</p> $\frac{x^2}{4} + \frac{y^2}{25} = 1$	<p>O</p> <p>Center is (0, 0) Major axis lies on the y-axis Length of the major axis is 10 Length of the minor axis is 4</p>	<p>16</p> 
<p>⬛</p> $\frac{(x+2)^2}{36} + \frac{(y-1)^2}{4} = 1$	<p>K</p> <p>Center is (-2, 1) Major axis is parallel to the x-axis Length of the major axis is 12 Length of the minor axis is 4</p>	<p>5</p> 
<p>⬤</p> $\frac{(x+3)^2}{9} + (y+1)^2 = 1$	<p>N</p> <p>Center is (-3, -1) Major axis is parallel to the x-axis Length of the major axis is 6 Length of the minor axis is 2</p>	<p>1</p> 

$\frac{y^2}{9} - \frac{x^2}{4} = 1$	<p>G</p> <p>Center is (0, 0) Asymptotes are $y = \frac{3}{2}x$ and $y = -\frac{3}{2}x$ Vertices are (0, 3) and (0, -3)</p>	<p>8</p> 
$\frac{x^2}{4} - \frac{y^2}{9} = 1$	<p>D</p> <p>Center is (0, 0) Asymptotes are $y = \frac{3}{2}x$ and $y = -\frac{3}{2}x$ Vertices are (2, 0) and (-2, 0)</p>	<p>20</p> 
$\frac{y^2}{16} - \frac{x^2}{9} = 1$	<p>F</p> <p>Center is (0, 0) Asymptotes are $y = \frac{4}{3}x$ and $y = -\frac{4}{3}x$ Vertices are (0, 4) and (0, -4)</p>	<p>18</p> 

<p>&</p> $\frac{x^2}{25} - \frac{y^2}{4} = 1$	<p>L</p> <p>Center is (0, 0) Asymptotes are $y = \frac{2}{5}x$ and $y = -\frac{2}{5}x$ Vertices are (5, 0) and (-5, 0)</p>	<p>9</p> 
<p>♡</p> $\frac{x^2}{9} - \frac{y^2}{16} = 1$	<p>E</p> <p>Center is (0, 0) Asymptotes are $y = \frac{4}{3}x$ and $y = -\frac{4}{3}x$ Vertices are (3, 0) and (-3, 0)</p>	<p>7</p> 
<p>Hyperbola</p>	<p>Center is (0, 0) Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$ Vertices are (0, b) and (0, -b)</p>	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$</p> <p>Vertices are (a, 0) and (-a, 0)</p>

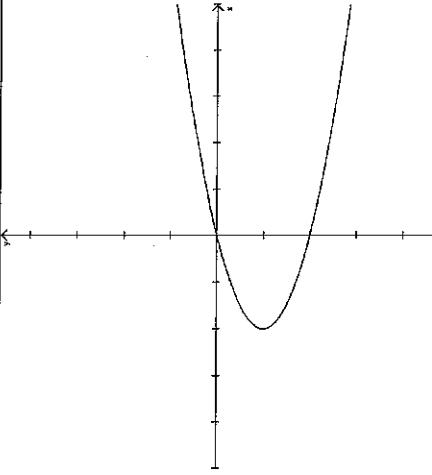
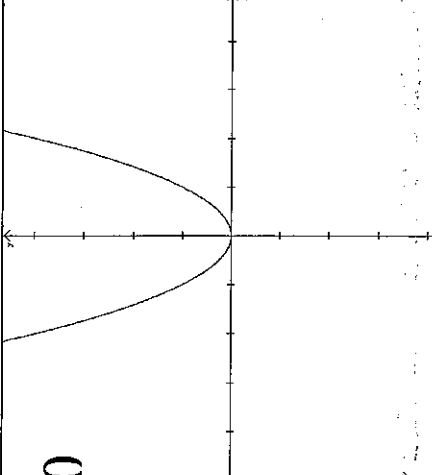
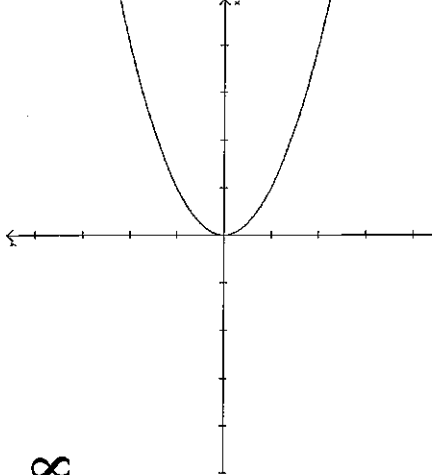
Ellipse	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$ <p>Center is (h, k)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ <p>Center is (0, 0)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>
Circle	$(x-h)^2 + (y-k)^2 = r^2$ <p>Center is (h, k)</p> <p>Radius is r</p>	$x^2 + y^2 = r^2$ <p>Center is (0, 0)</p> <p>Radius is r</p>
Parabola	$y = a(x-h)^2 + k$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens up. If $a < 0$, it opens down.</p> <p>Focus is $(h, k + \frac{1}{4a})$</p> <p>Directrix is $y = k - \frac{1}{4a}$</p>	$x = a(y-k)^2 + h$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens right. If $a < 0$, it opens left.</p> <p>Focus is $(h + \frac{1}{4a}, k)$</p> <p>Directrix is $x = h - \frac{1}{4a}$</p>

Conic Cards

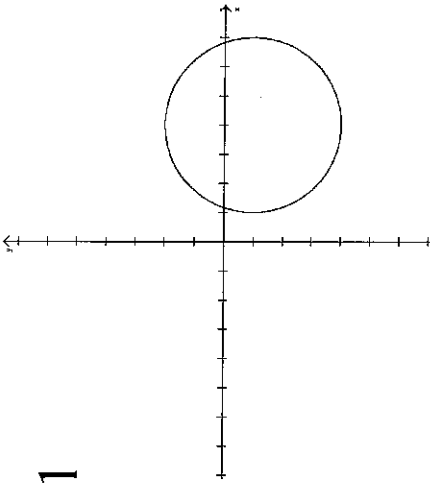
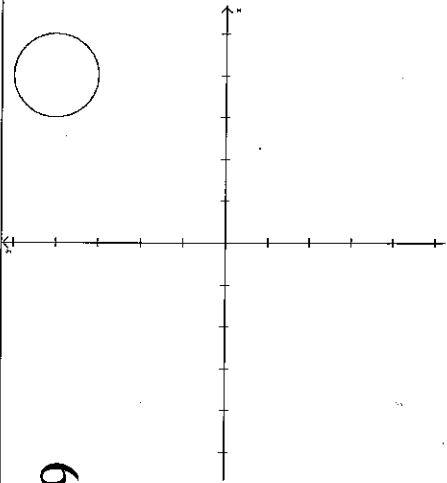

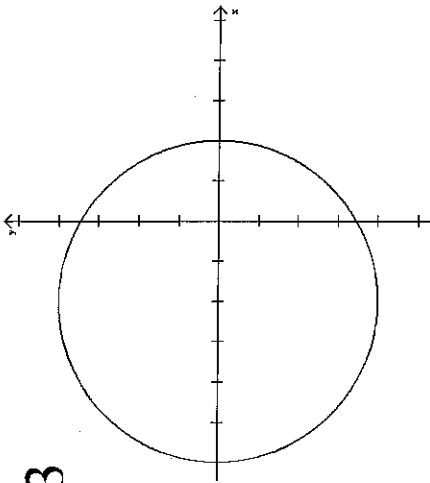
Deck #9

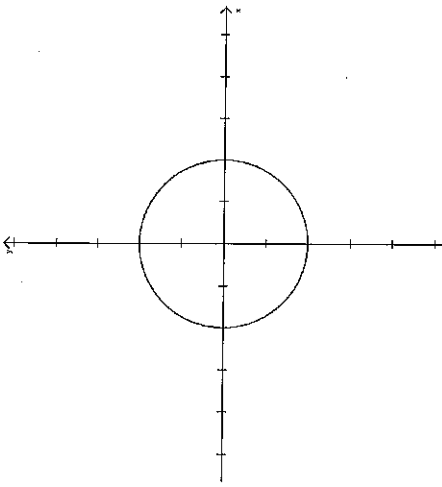
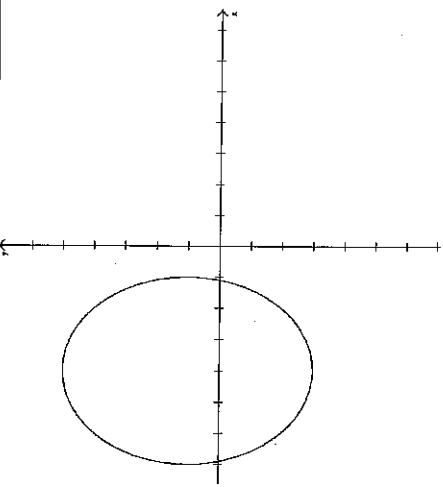
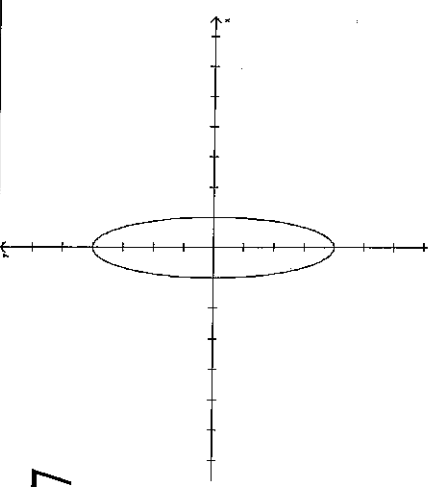
Conic Cards Deck #9

Parabolas				Circles				Ellipse				Hyperbola			
~	S	9		★	F	4		♡	A	10		☺	N	5	
@	K	20		!	C	11		\$	J	17		▲	T	1	
%	E	18		<	H	19		◆	O	14		⬠	B	2	
■	D	15		▲	I	13		?	G	3		#	Q	12	
>	M	16		●	L	6		&	R	7		■	P	8	


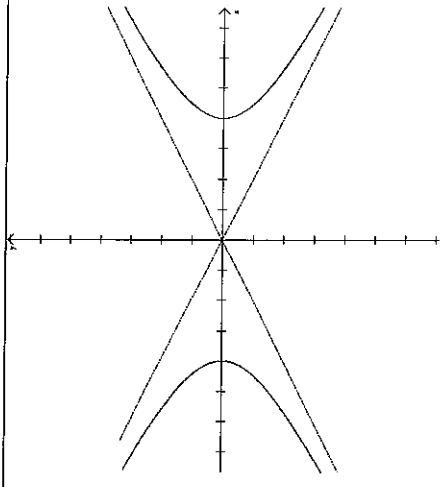

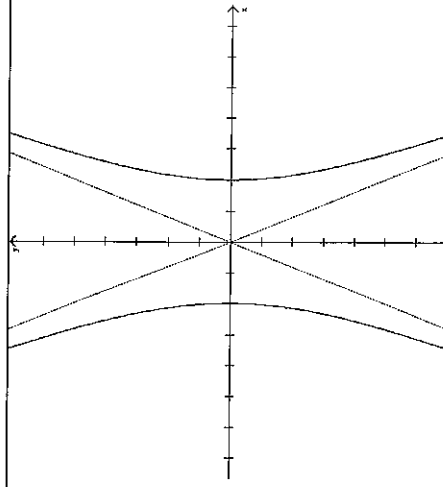

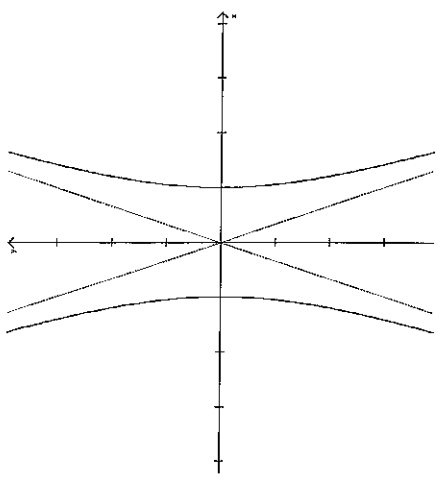
$x = 2(y+1)^2 - 2$	<p>S</p> <p>Vertex is $(-2, -1)$ Opens right Focus is $(-1\frac{7}{8}, -1)$ Directrix is $x = -2\frac{1}{8}$</p>	<p>9</p> 
$y = x^2$	<p>K</p> <p>Vertex is $(0, 0)$ Opens up Focus is $(0, \frac{1}{4})$ Directrix is $y = -\frac{1}{4}$</p>	<p>20</p> 
$x = y^2$	<p>E</p> <p>Vertex is $(0, 0)$ Opens right Focus is $(\frac{1}{4}, 0)$ Directrix is $x = -\frac{1}{4}$</p>	<p>18</p> 

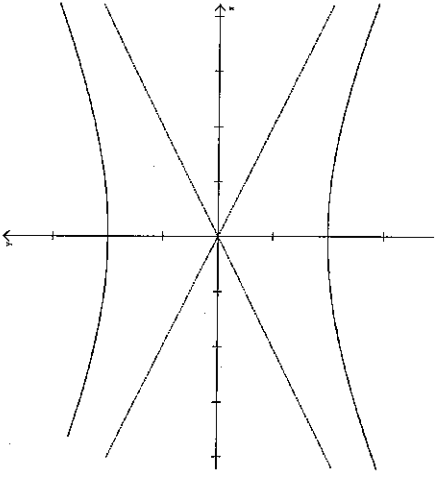
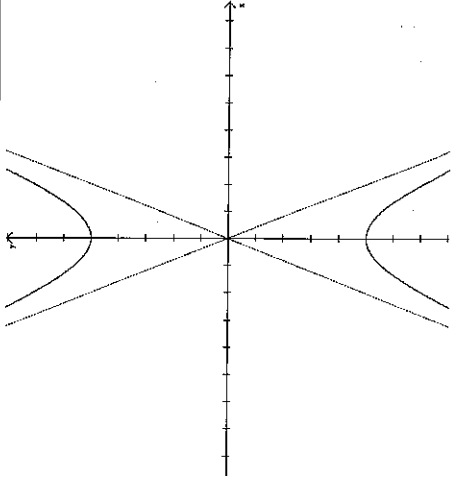
<div data-bbox="131 1896 185 1971" data-label="Image"></div>	<div data-bbox="337 1560 378 1776" data-label="Equation-Block"> $y = -2(x+1)^2 - 1$ </div>	<div data-bbox="159 1266 203 1312" data-label="Text"> <p>D</p> </div> <div data-bbox="264 909 423 1157" data-label="Text"> <p>Vertex is $(-1, -1)$ Opens down Focus is $(-1, -1\frac{1}{8})$ Directrix is $y = -\frac{7}{8}$</p> </div>	<div data-bbox="162 615 207 667" data-label="Text"> <p>15</p> </div> <div data-bbox="134 157 563 634" data-label="Figure"> </div>
<div data-bbox="613 1917 646 1955" data-label="Text"> <p>></p> </div>	<div data-bbox="760 1570 800 1764" data-label="Equation-Block"> $y = (x-3)^2 + 2$ </div>	<div data-bbox="610 1260 654 1312" data-label="Text"> <p>M</p> </div> <div data-bbox="721 915 880 1152" data-label="Text"> <p>Vertex is $(3, 2)$ Opens up Focus is $(3, 2\frac{1}{4})$ Directrix is $y = 1\frac{3}{4}$</p> </div>	<div data-bbox="613 615 657 667" data-label="Text"> <p>16</p> </div> <div data-bbox="584 157 1024 634" data-label="Figure"> </div>
<div data-bbox="1031 1896 1109 1971" data-label="Image"></div>	<div data-bbox="1211 1535 1252 1799" data-label="Equation-Block"> $(x-1)^2 + (y-1)^2 = 9$ </div>	<div data-bbox="1060 1276 1104 1312" data-label="Text"> <p>F</p> </div> <div data-bbox="1214 936 1279 1127" data-label="Text"> <p>Center is $(1, 1)$ Radius is 3</p> </div>	<div data-bbox="1063 663 1107 699" data-label="Text"> <p>4</p> </div> <div data-bbox="1044 157 1476 634" data-label="Figure"> </div>

<p>!</p> $(x-4)^2 + (y+1)^2 = 9$	<p>C</p> <p>Center is (4, -1) Radius is 3</p>	<p>11</p> 
<p><</p> $(x-4)^2 + (y-4)^2 = 1$	<p>H</p> <p>Center is (4, 4) Radius is 1</p>	<p>19</p> 
 $(x+2)^2 + y^2 = 16$	<p>I</p> <p>Center is (-2, 0) Radius is 4</p>	<p>13</p> 

●	$x^2 + y^2 = 4$	<p>L</p> <p>Center is (0, 0) Radius is 2</p>	<p>6</p> 
♡	$\frac{(x+4)^2}{9} + \frac{(y-1)^2}{16} = 1$	<p>A</p> <p>Center is (-4, 1) Major axis is parallel to the y-axis Length of the major axis is 8 Length of the minor axis is 6</p>	<p>10</p> 
\$	$x^2 + \frac{y^2}{16} = 1$	<p>J</p> <p>Center is (0, 0) Major axis lies on the y-axis Length of the major axis is 8 Length of the minor axis is 2</p>	<p>17</p> 

<div data-bbox="126 1892 204 1969" data-label="Image"></div> <div data-bbox="256 1549 342 1772" data-label="Equation-Block"> $\frac{x^2}{16} + \frac{(y-2)^2}{4} = 1$ </div>	<div data-bbox="154 1262 201 1308" data-label="Text">O</div> <div data-bbox="261 808 402 1243" data-label="Text"> <p>Center is (0, 2) Major axis is parallel to the x-axis Length of the major axis is 8 Length of the minor axis is 4</p> </div> <div data-bbox="159 604 206 661" data-label="Text">14</div> <div data-bbox="116 151 558 627" data-label="Figure"> </div>
<div data-bbox="748 1919 794 1948" data-label="Text">?</div> <div data-bbox="756 1528 834 1799" data-label="Equation-Block"> $\frac{(x+1)^2}{36} + \frac{(y+1)^2}{9} = 1$ </div>	<div data-bbox="607 1262 654 1308" data-label="Text">G</div> <div data-bbox="719 808 860 1243" data-label="Text"> <p>Center is (-1, -1) Major axis is parallel to the x-axis Length of the major axis is 12 Length of the minor axis is 6</p> </div> <div data-bbox="612 636 657 667" data-label="Text">3</div> <div data-bbox="574 151 1016 627" data-label="Figure"> </div>
<div data-bbox="1052 1902 1097 1948" data-label="Text">&</div> <div data-bbox="1208 1524 1286 1803" data-label="Equation-Block"> $\frac{(x-2)^2}{25} + \frac{(y+3)^2}{4} = 1$ </div>	<div data-bbox="1057 1262 1104 1308" data-label="Text">R</div> <div data-bbox="1174 808 1315 1243" data-label="Text"> <p>Center is (2, -3) Major axis is parallel to the y-axis Length of the major axis is 10 Length of the minor axis is 4</p> </div> <div data-bbox="1062 636 1107 667" data-label="Text">7</div> <div data-bbox="1040 151 1472 627" data-label="Figure"> </div>

 $\frac{x^2}{16} - \frac{y^2}{4} = 1$	<p>N</p> <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{2}{4}x$ and $y = -\frac{2}{4}x$, which are equal to $y = \frac{1}{2}x$ and $y = -\frac{1}{2}x$</p> <p>Vertices are (4, 0) and (-4, 0)</p>	 <p>5</p>
 $\frac{x^2}{4} - \frac{y^2}{25} = 1$	<p>T</p> <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{5}{2}x$ and $y = -\frac{5}{2}x$</p> <p>Vertices are (2, 0) and (-2, 0)</p>	 <p>1</p>
 $x^2 - \frac{y^2}{9} = 1$	<p>B</p> <p>Center is (0, 0)</p> <p>Asymptotes are $y = 3x$ and $y = -3x$</p> <p>Vertices are (1, 0) and (-1, 0)</p>	 <p>2</p>

#	$\frac{y^2}{4} - \frac{x^2}{16} = 1$	<p>Q</p> <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{2}{4}x$ and $y = -\frac{2}{4}x$, which are equal to $y = \frac{1}{2}x$ and $y = -\frac{1}{2}x$</p> <p>Vertices are (0, 2) and (0, -2)</p>	<p>12</p> 
■	$\frac{y^2}{25} - \frac{x^2}{4} = 1$	<p>P</p> <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{5}{2}x$ and $y = -\frac{5}{2}x$</p> <p>Vertices are (0, 5) and (0, -5)</p>	<p>8</p> 
	<p>Hyperbola</p>	$\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$ <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$</p> <p>Vertices are (0, b) and (0, -b)</p>	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ <p>Center is (0, 0)</p> <p>Asymptotes are $y = \frac{b}{a}x$ and $y = -\frac{b}{a}x$</p> <p>Vertices are (a, 0) and (-a, 0)</p>

<p>Ellipse</p>	$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$ <p>Center is (h, k)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ <p>Center is (0, 0)</p> <p>If $a > b$, the major axis is parallel to the x-axis, the length of the major axis is $2a$ and the length of the minor axis is $2b$.</p> <p>If $b > a$, the major axis is parallel to the y-axis, the length of the major axis is $2b$ and the length of the minor axis is $2a$.</p>
<p>Circle</p>	$(x-h)^2 + (y-k)^2 = r^2$ <p>Center is (h, k)</p> <p>Radius is r</p>	$x^2 + y^2 = r^2$ <p>Center is (0, 0)</p> <p>Radius is r</p>
<p>Parabola</p>	$y = a(x-h)^2 + k$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens up. If $a < 0$, it opens down.</p> <p>Focus is $(h, k + \frac{1}{4a})$</p> <p>Directrix is $y = k - \frac{1}{4a}$</p>	$x = a(y-k)^2 + h$ <p>Vertex is (h, k)</p> <p>If $a > 0$, it opens right. If $a < 0$, it opens left.</p> <p>Focus is $(h + \frac{1}{4a}, k)$</p> <p>Directrix is $x = h - \frac{1}{4a}$</p>