

NAME: _____

QUADRATIC FORMULA

CUT AND PASTE THE BOXES AND PLACE THEM NEXT TO THE CORRECT PROBLEM.

1 $x^2 - 10x + 24 = 0$	PLUG IT IN	ANSWER
2 $3x^2 - 4 = x$	PLUG IT IN	ANSWER
3 $8x^2 + 14x = -3$	PLUG IT IN	ANSWER
4 $x^2 + 4 = 7x - 3$	PLUG IT IN	ANSWER
5 $2x^2 = 3x + 23$	PLUG IT IN	ANSWER

6

$$x^2 + 4x - 6 = 0$$

PLUG IT IN

ANSWER

7

$$x^2 + 7x = 16$$

PLUG IT IN

ANSWER

8

$$6x^2 + 40 = -31x$$

PLUG IT IN

ANSWER

9

$$x^2 + 6x = -2$$

PLUG IT IN

ANSWER

10

$$x^2 - 8x + 5 = 0$$

PLUG IT IN

ANSWER

A $x = \frac{-4 \pm \sqrt{(4)^2 - 4(1)(-6)}}{2(1)}$	B $x = \frac{-7 \pm \sqrt{113}}{2}$	C $x = \frac{-31 \pm \sqrt{(31)^2 - 4(6)(40)}}{2(6)}$
D $x = \frac{-5}{2}, \frac{-8}{3}$	E $x = \frac{10 \pm \sqrt{(-10)^2 - 4(1)(24)}}{2(1)}$	F $x = -1, \frac{4}{3}$
G $x = \frac{8 \pm \sqrt{(-8)^2 - 4(1)(5)}}{2(1)}$	H $x = 4, 6$	I $x = 4 \pm \sqrt{11}$
J $x = -3 \pm \sqrt{7}$	K $x = \frac{-7 \pm \sqrt{(7)^2 - 4(1)(-16)}}{2(1)}$	L $x = \frac{7 \pm \sqrt{21}}{2}$
M $x = \frac{7 \pm \sqrt{(-7)^2 - 4(1)(7)}}{2(1)}$	N $x = \frac{3 \pm \sqrt{193}}{4}$	O $x = \frac{1 \pm \sqrt{(-1)^2 - 4(3)(-4)}}{2(3)}$

<p>P</p> $x = -2 \pm \sqrt{10}$	<p>Q</p> $x = \frac{-6 \pm \sqrt{(6)^2 - 4(1)(2)}}{2(1)}$	<p>R</p> $x = \frac{-14 \pm \sqrt{(14)^2 - 4(8)(3)}}{2(8)}$
<p>S</p> $x = \frac{3 \pm \sqrt{(-3)^2 - 4(2)(-23)}}{2(2)}$	<p>T</p> $x = \frac{-1}{4}, \frac{-3}{2}$	