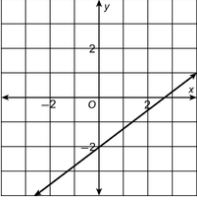
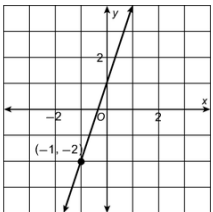


# FCPS **REVIEW** ACA 1

Question Number	Question
1	Which of the sets shown include the elements of Set Z that are both even and multiples of 3? $Z = \{5, 6, 7, 8, 9, 10, 12\}$
2	Order the numbers from least to greatest. $\sqrt{\frac{60}{6}}, 2.9, \sqrt{8}, \pi$
3	What is the value of x in the equation? $8x - 4(x - 6) + 8 = 44$
4	The sum of three consecutive integers is 78. What are the three numbers?
5	Identify whether no, one, or infinitely many solutions exist for this equation. $4(t + 4) - 2t = 5t + 10 - 3(t - 2)$
6	Solve $y = mx + b$ for x.

7	<p>Solve the inequality.</p> $3(x - 2) + 1 \geq x + 2(x + 2)$
8	<p>Graph the solution of the inequality on a number line.</p> $2x - (3 - x) > x + 1$
9	<p>Solve the compound inequality.</p> $3(2x - 5) < 15 \text{ or } 4(2x - 1) > 12$
10	<p>What is the equation of the graph in slope-intercept form?</p> 
11	<p>What is the equation of the line through <math>(-4, 8)</math> and <math>(4, 6)</math></p>
12	<p>Zachary purchased a computer for \$1,800. He pays \$150 a month. What is a line equation that represents the amount Zachary still has to pay after <math>x</math> weeks?</p>
13	<p>What is the equation for a horizontal line that passes through <math>(5, -3)</math>?</p>

14	<p>Write the equation for the graph in point-slope form.</p> 
15	<p>Write the equation in point-slope form of the line that passes through <math>(4, -11)</math> and has a slope of <math>\frac{3}{4}</math>.</p>
16	<p>What is an equation in point-slope form of the line that passes through <math>(-2, -8)</math> and <math>(2, 4)</math>?</p>
17	<p>Identify the x-intercept and the y-intercept of the graph of <math>4x - 5y = 80</math>.</p>
18	<p>Jung-Soon has \$25 to spend on prizes for a game at the school fair. Lip balm cost \$1.25 each, and mini-notebooks cost \$1.50 each. Write a linear equation that can be used to determine how many of each prize she can buy.</p>
19	<p>What is the equation in slope-intercept form of the line that passes through <math>(-9, 4)</math> and is parallel to the graph of <math>y = \frac{2}{3}x + 19</math>?</p>
20	<p>What is the y-intercept of the line <math>y - 7 = -4(x - 1)</math>?</p>