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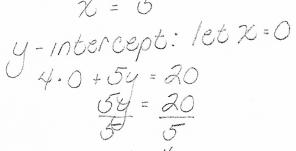
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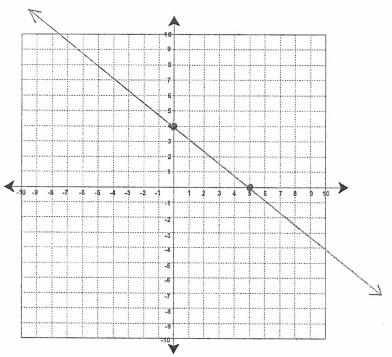
Algebra 1 Semester 1

Assessment Training Practice #3A

1.) Find the x-intercept and the y-intercept of the graph of the equation: 4x + 5y = 20.

Graph the equation. X-Intercept: let, 4=0 4x + 5.0 = 20 $\frac{4x}{4} = \frac{20}{4}$ x = 5



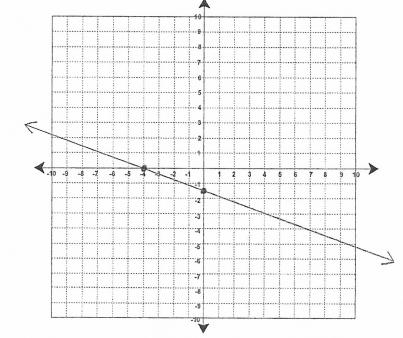


Find the x-intercept and the y-intercept of the graph of the equation: -3x - 8y = 12. 2.)

Graph the equation. χ -intercept: let y = 0-3x - 8.0 = 12

 $-\frac{3x}{-3} = \frac{12}{-3}$ x = -4

y-intercept: let x = 0 -3.0 - 84 = 12 $-\frac{8y}{8} = \frac{12}{8}$ y = -1.5



3.) A line passes through the points (-5, 9) and (-2, 0). Write an equation for the line. Graph the equation.

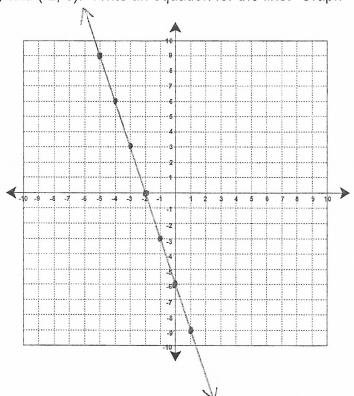
the equation.

$$(-5, 9) (-2, 0)$$
 $x_1 y_1 \qquad x_2 y_2$
 $m = 0 - 9$
 $-2 - -5$

$$m = \frac{-9}{3} \qquad y = m \approx + b$$

$$m = -3 \qquad 9 = -3(-5) + b$$

$$-9 = -3(-$$



4.) A line passes through the points (2, -4) and (-2, 6). Write an equation for the line. Graph the equation.

$$(2,-4)(-2,6)$$

 x_1y_1 x_2y_2
 $m = 6-4$
 $-2-2$

$$m = -\frac{5}{2}$$

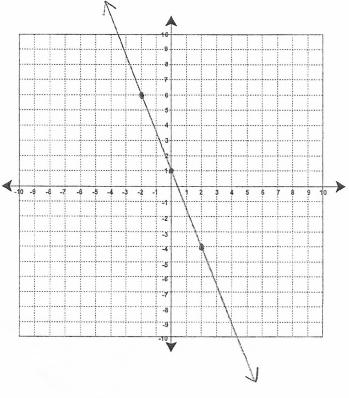
$$m = \frac{10}{-4}$$

$$M = -\frac{5}{2}$$

$$G = \frac{10}{2} + b$$

$$\begin{array}{c}
4 = 5 + b \\
-5 = 5 \\
1 = b
\end{array}$$

$$\begin{array}{c}
4 = -5 \\
2 \times + 1
\end{array}$$



$$\frac{4x}{8} + 18 = 38$$

$$\frac{4}{8}x + 18 = 38$$

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

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$$\frac{11 = 8\%}{8}$$

$$\frac{11}{8} = \%$$

$$7x + x - x - 6 = 5x$$

$$7\chi + \chi - \chi - 4 = 5\%$$

$$7\chi - 4 = 5\%$$

$$-5\chi$$

$$-5\chi$$

$$-5\chi$$

$$2\chi - 4 = 4$$

$$2\chi = 4$$

$$2\chi = 3$$

$$\frac{2}{3}x + 5 = \frac{5}{6}x - 3$$

$$\frac{2}{3}x + 5 = \frac{5}{6}x - 3$$

$$\frac{2}{3}x + 5 = \frac{5}{6}x - 3$$

$$\frac{4}{3}x + 5 = \frac{5}{6}x - 3$$

$$\frac{4}$$

9.) The lengths of the sides of a triangle are consecutive even integers. What is the length of

the longest side if the perimeter is 36 inches?

Consecutive even Integers:
$$\chi$$
, $\chi + 2$, $\chi + 4$
 $\chi + \chi + 2 + \chi + 4 = 36$
 $3\chi + 6 = 36$
 $-6 - 6$
 $3\chi = 30$
 $3\chi = 30$

$$\chi = 10$$
 inches
 $\chi + \lambda = 12$ inches
 $\chi + 4 = 14$ inches

10.) Suppose I have 100 feet of fencing to build a rectangular dog pen. To fit in the area I have in my backyard, I want to make the length 6 feet longer than the width. How long should the sides be if I want to make sure that I use all the fencing I have?

$$Width = W$$
 $length = (W + 6)$
 $Perimeter = 100$
 $P = 3w + 3L$

$$P = 2\omega + 2L$$
 $100 = 2\omega + 2(\omega + 6)$
 $100 = 2\omega + 2\omega + 12$
 $100 = 4\omega + 12$
 -12

$$\frac{88}{4} = \frac{4\omega}{4}$$

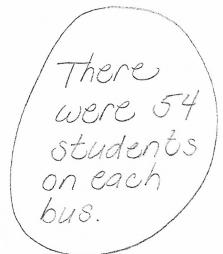
$$22 = \omega$$

11.) 331 students went on a field trip. Six buses were filled and 7 students traveled in cars. How many students were in each bus?

Let x be the number of students on the buses.

$$6x + 7 = 331$$
 $-7 - 7$

$$\frac{6x}{6} = \frac{324}{6}$$
 $x = 54$



12.) The sum of three consecutive integers is 168. Write an equation that models this situation and find the value of the three integers.

Consecutive integers:
$$\chi$$
, $\chi+1$, $\chi+2$

$$\chi+\chi+1+\chi+2=168$$

$$3\chi+3=168$$

$$-3$$

$$-3$$

$$\chi=\frac{165}{3}$$

$$\chi=55$$
The, 3

The 3
Consecutive
Integers are
55,56, and 57