

Write the equation in slope-intercept form

1.
$$8x - 4y = -12$$

 $-3x$
 $-4y = -3x - 12$
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2.
$$-4x + 2y = 14$$

 $+4x + 44x$
 $-2y = 4x + 14$
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 $-2y = 4x + 14$
 $-2y = 4x + 14$

3.
$$8x + 9y = -27$$
 $-8x$
 $-8x$
 $-8x$
 $9y = -8x -27$
 9
 $y = -8 \times -3$

Identify the ${\bf x}$ and ${\bf y}$ intercepts of the equation. Write answer as a coordinate.

4.
$$x + 2y = 8$$

 $x+2(0)=8$ | (0)+2y=8
 $x=8$ | $\frac{2y=8}{2}$ | $y=4$

5.
$$4x - 8y = -16$$

$$4x - 8(0) = -16 + 4(0) - 8y = -16$$

$$4x = -16 + -8y = -16$$

$$4x = -16 + -8y = -16$$

$$-8y = -16$$

X- Intercept: <u>(-4,0)</u> Y-Intercept: (0,2)

5.
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$$4x - 8(0) = -16$$

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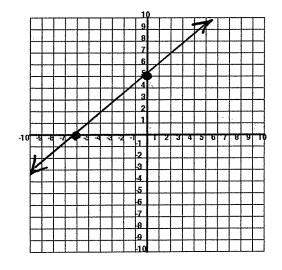
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X-Intercept: (-15,0) Y-Intercept: (0,-3)

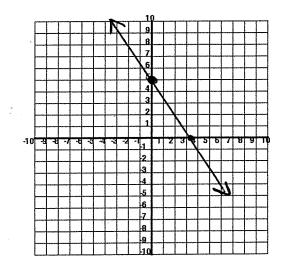
7. Graph the equation

$$-5x + 6y = 30$$



8. Graph the equation

$$3x - 2y = -10$$



I can solve Standard Form word problems

- 9. You are in charge of buying food for your family reunion. You pay \$1.50 for each hamburger and \$2 for each hot dog.
 - a. Define variables for the number of hot dogs and hamburgers you buy.

b. Write an equation in standard form to relate the number of hamburgers and hot dogs you must buy to stay in your \$90 budget.

c. If you bought 30 hot dogs, how many hamburgers did you buy?

1.50b+2(30)=90
1.50b+60=90
-60-60

$$\frac{1.50b=30}{1.50}$$

 $b=20$

You bought 20 hamburgers.

- 10. You are selling drinks at the carnival to raise money for your school club. You sell lemonade for \$2 per cup and soda for \$3 per can.
 - a. Define variables for the cups of lemonade and cans of sodas you sell.

b. Write an equation in standard form to relate the cups of lemonade and cans of soda you must sell to raise \$240.

c. If you sell 60 cups of lemonade, how many cans of soda did you sell?

$$2(40)+3s=240$$
 $120+3s=240$
 -120
 $3s=120$
 $3s=40$