Name _____

Find the x- and y-intercepts of each equation. 1. 3x - y = 92. 4x + 12y = -18

Graph each equation using the x- and y-intercepts.

4. -3x + y = 6

5. -2x - 4y = 8

6. 2 - y = x - 6

3. 7x - 2y = 4



Write each equation in standard form using integers.

9.
$$y = 4x - 7$$
 10. $y = -\frac{3}{4}x - 4$ 11. $y = \frac{7}{2}x + \frac{1}{4}$

12. The sophomore class holds a car wash to raise money. A local merchant donates all of the supplies. A wash costs \$5 per car and \$6.50 per van or truck.

- a.) Define a variable for the number of cars. Define a variable for the number of vans or trucks.
- b.) Write an equation in standard form to relate the number of cars and vans or trucks the students must wash to raise \$800.
- c.) Graph the equation.
- d.) Identify three possible combinations of cars and vans or trucks that the students could wash to reach their goal.



13. You only have nickels and dimes in your piggy bank. When you ran your coins through a coin counter, it indicated that you have \$5.95. Write an equation in standard form to represent the situation.

Write each equation in slope-intercept form (y=mx+b).14. 8x - 10y = -10015. 3x - 27y = 18

16. Suppose your school is having a talent show to raise money for new music supplies. You estimate that 200 students and 150 adults will attend. You estimate \$200 in expenses.

a.) Write an equation to find what ticket prices you should set to raise \$1000.

b.) Graph your equation.

c.) Choose three possible prices you could set for students' and adults' tickets. Which is the best choice? Explain.

