

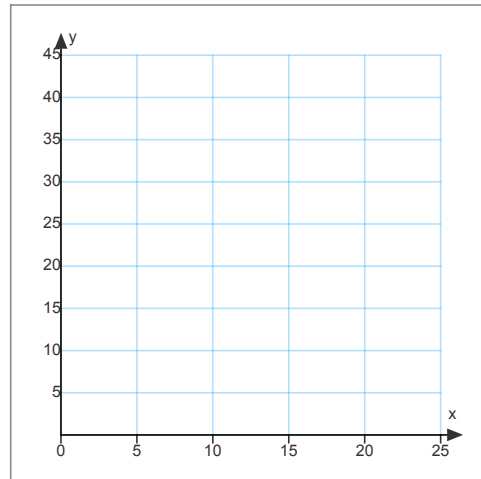
Alg 1 Friday Week 12 Warm-up

Skill 5: Evaluate and Graph a Function.

Lauren wants to take a taxi from the hotel to a friend's house. The rate is \$3.00 plus \$1.50 per mile. Draw a graph to represent the cost of using the taxi cab for a ride up to 20 miles.

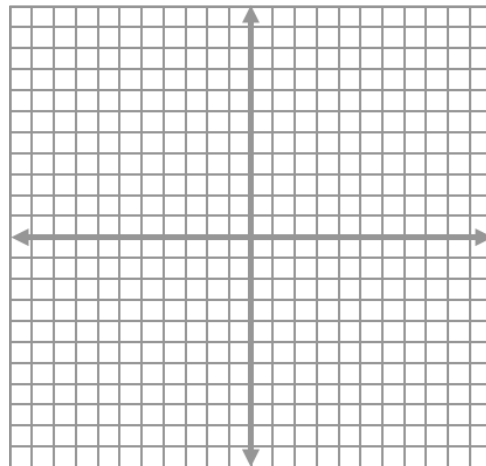
How long is the ride if the trip costs \$30?

X	Y



Skill 6: Graph a linear equation.

$$y + 2x - 4 = 0$$



Skill 7: Write the Equation of a Line passing through 2 points.

$(-1,7)$  and  $(2,-5)$

Skill 8: Write the equation of a line parallel or perpendicular to a given line through a given point.

Write the equation of a line parallel to  $y = 2x - 4$  that goes through the point  $(-3,5)$ .

Alg 1 "Intercepts Method Worksheet"

Name \_\_\_\_\_

Friday CW: 1-10, 20, 22

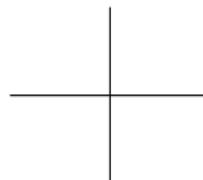
HW: rest of worksheet

Computing the  $x$ - and  $y$ - Intercepts of a Linear Equation and Graphing Using the Intercepts

1. Define the  $x$ -intercept of a line.

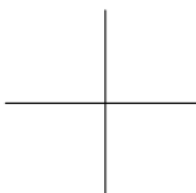
2. Define the  $y$ -intercept of a line.

3. Draw a line on the graph and indicate the  $x$ -intercept.



4. Give the  $x$ -intercept as an ordered pair.

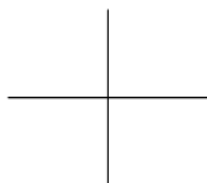
5. Draw another line on the graph and indicate the  $y$ -intercept.



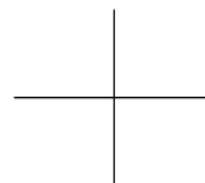
6. Give the  $y$ -intercept as an ordered pair.

Calculate the  $x$ - and  $y$ - intercepts for the following linear equations. List the intercepts as ordered pairs. Graph.

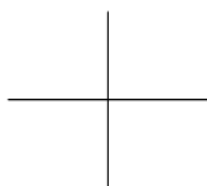
7.  $5x + 3y = 15$



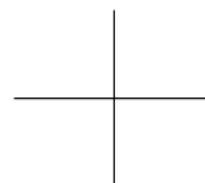
8.  $7x - 4y = 28$



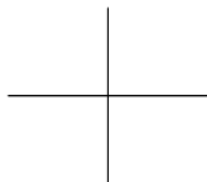
9.  $-4x + 3y = 12$



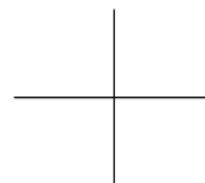
10.  $-10x - 30y = 90$



11.  $6x + 3y = -12$



12.  $-x + 3y = 6$



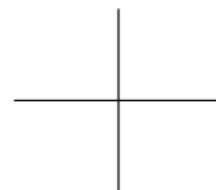
# A1 w12d4 Intercepts Method.notebook

Graph each equation using the  $x$ - and  $y$ - intercepts:

13.  $9x - 6y = -36$



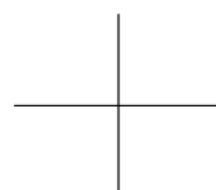
14.  $-2x - 3y = -12$



15.  $5x - 2y = 10$



16.  $-8x + 10y = 40$

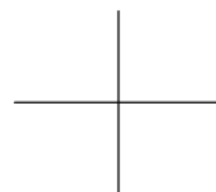


Graph a line that matches each description:

17.  $y$ -intercept is  $(0, 3)$  and doesn't have an  $x$ -intercept. (Never hits the  $x$ -axis.)



18.  $x$ -intercept is  $(-2, 0)$  and doesn't have a  $y$ -intercept. (Never hits the  $y$ -axis.)



Write an equation in of the line that passes through the given point and is parallel to the graph of the given equation.

19.  $(1,3)$   $y = 3x + 2$

20.  $(1,3)$   $y + 2 = 4(x - 1)$

21.  $(0,0)$   $y = \frac{2}{3}x + 1$

Write an equation in of the line that passes through the given point and is perpendicular to the graph of the given equation.

22.  $(0,0)$   $y = -3x + 2$

23.  $(-3,2)$   $x - 2y = 7$

24.  $(5,0)$   $y + 1 = 2(x - 3)$