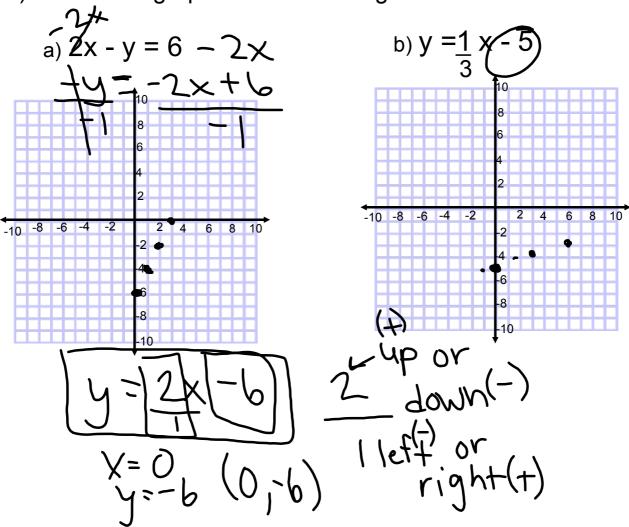
1

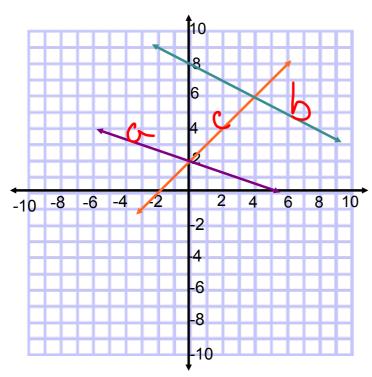
Warm Up

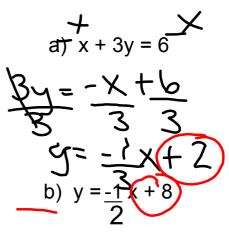
1) Sketch the graph for the following



Warm Up

2) Match the graph with the equation





c)
$$y - x = 2+X$$

$$y = x + 2$$



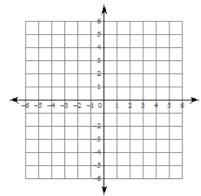
3) Amanda is hosting "After Formal" and her mom is ordering pizza. Each Pizza ordered will cost \$15.00 plus an additional \$4.00 delivery for delivery. Write an equation that represents the cost of the pizza.

Math 9

Graphing Equations

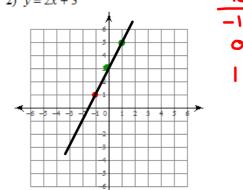
Sketch the graph of each line.

1)
$$y = -x + 4$$

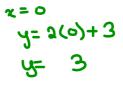


Date_____

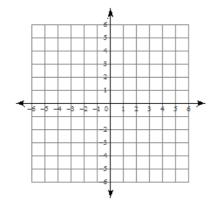
2)
$$y = 2x + 3$$



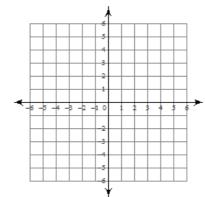
$$A = -3 + 3$$
 $A = 3(-1) + 3$
 $X = -1$



3)
$$y = \frac{1}{3}x + 2$$



4)
$$y = \frac{1}{5}x - 2$$

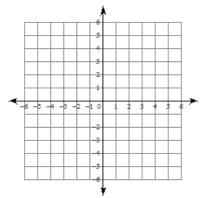


Math 9

Graphing Equations

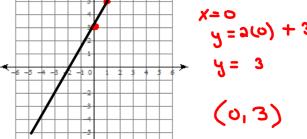
Sketch the graph of each line.

1)
$$y = -x + 4$$

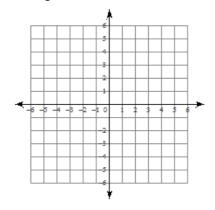




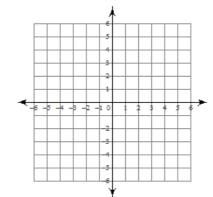




3)
$$y = \frac{1}{3}x + 2$$

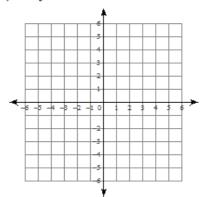


4)
$$y = \frac{1}{5}x - 2$$

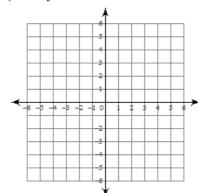


 $\frac{1}{2} \mathcal{G}_{i}$

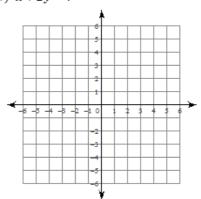
5) x - y = 2



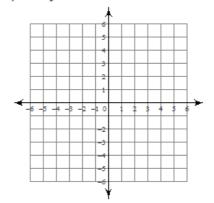
6) 2x + y = 0



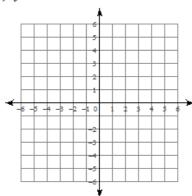
7) x + 2y = 4



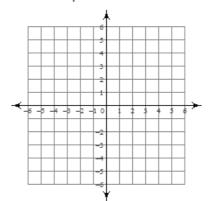
8) x - 3y = -9

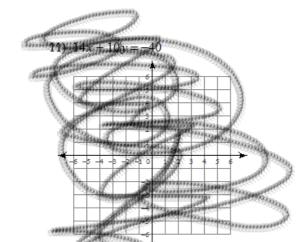




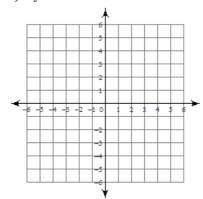


10)
$$0 = y + \frac{5}{4}x$$





12)
$$-y = 2 + x$$



Name _____ Date ____

Master 4.23

Extra Practice 4

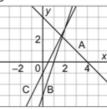
Lesson 4.4: Matching Equations and Graphs

1. Match each equation with a graph on this grid.

a)
$$y = 2x - 1$$

b)
$$y = -x + 4$$

c)
$$y = 3x - 3$$

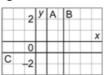


2. Match each equation with a graph on this grid.

a)
$$y = -1$$

b)
$$0 = -x + 1$$

c)
$$2 = 2x - 3$$



3. Match each equation with a graph on this grid. Justify your answers.

a)
$$x + y = 5$$

b)
$$x - y = 5$$

c)
$$x + y = -5$$



4. Which equation describes this graph? Justify your answers.

a)
$$y = x + 2$$

b)
$$y = -x + 2$$

c)
$$y = x - 2$$

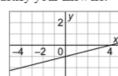


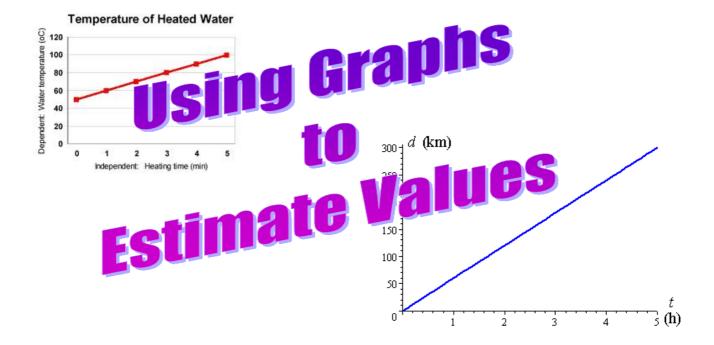
5. Which equation describes this graph? Justify your answers.

a)
$$x - y = 4$$

b)
$$x - 4y = 4$$

c)
$$4x - y = 1$$

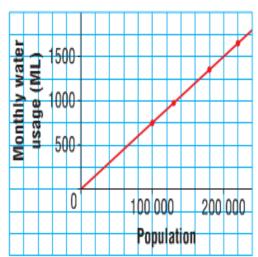




A city has grown over the past few years. This table and graph show how the volume of water used each month is related to the population.

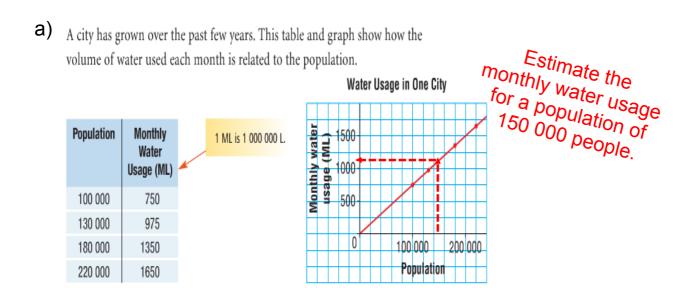
Water Usage in One City

Population	Monthly Water Usage (ML)
100 000	750
130 000	975
180 000	1350
220 000	1650

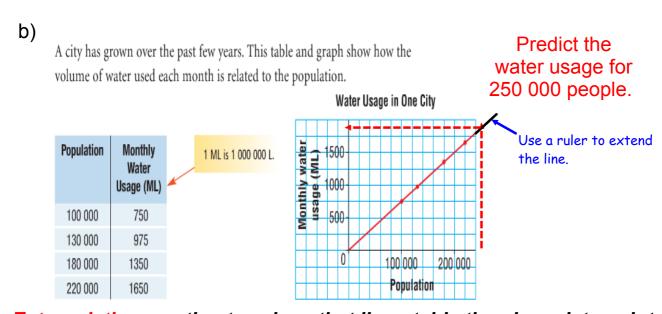


a) Estimate the monthly water usage for a population of 150 000 people.

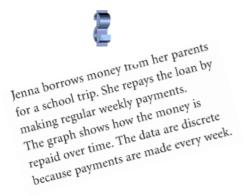
b) Predict the water usage for 250 000 people.

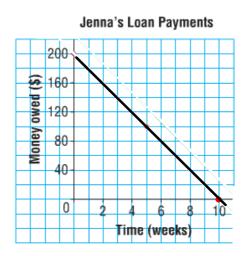


Interpolation... estimate values that lie between two data points



Extrapolation... estimate values that lie outside the given data points





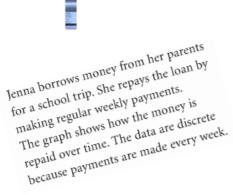
- a) How much money did Jenna originally borrow?
- b) How much money does she still owe after 3 weeks?
- c) How many weeks will it take Jenna to repay one-half of the money she borrowed?

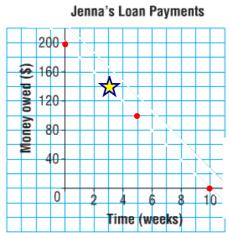


Jenna borrows money from her parents for a school trip. She repays the loan by making regular weekly payments. The graph shows how the money is repaid over time. The data are discrete repaid over time are made every week. because payments are made every week.

a) How much money did Jenna originally borrow?

Jenna borrowed \$200.



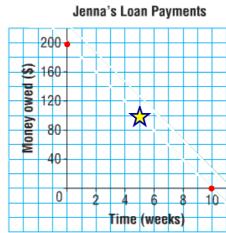


b) How much money does she still owe after 3 weeks?

Jenna owes \$140 after 3 weeks.

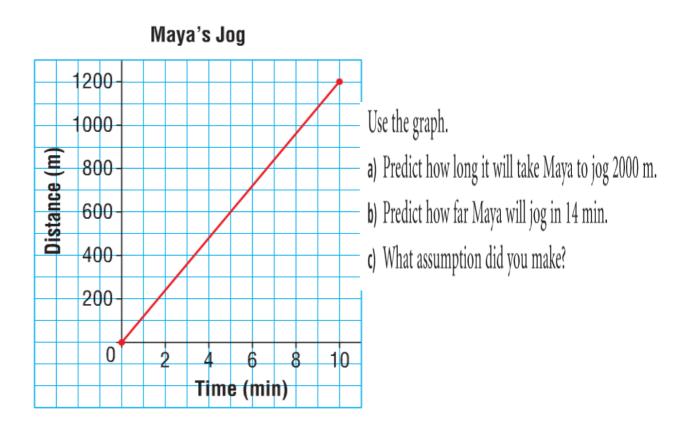


Jenna borrows money from her parents
for a school trip. She repays the loan by
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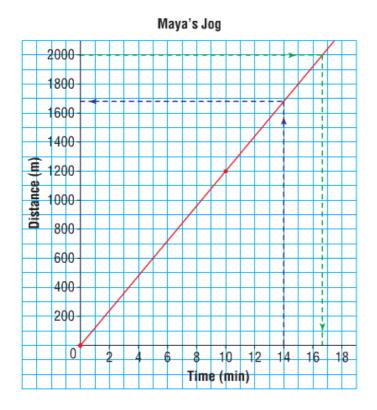


c) How many weeks will it take Jenna to repay one-half of the money she borrowed?

It will take
Jenna 5 weeks
to pay one-half
of them money
back.



You must use extrapolation. :)



Use the graph.

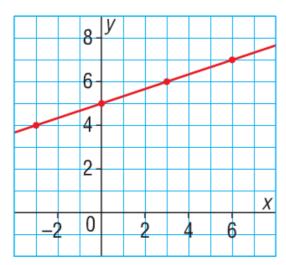
- a) Predict how long it will take Maya to jog 2000 m.
- **b)** Predict how far Maya will jog in 14 min.
- c) What assumption did you make?

 Answers:

a)

b)

Which questions can be answered using interpolation?



Determine the values of y for each of the following values

of x. a)
$$x = -3$$

b)
$$x = 6$$

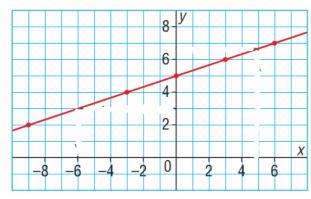
c)
$$x = -4$$

Determine the values of x for each of the following values of y.

a)
$$y = 3$$

c)
$$y = 2$$

Which questions will have to be answered using extrapolation?



Determine the values of y for each of the following values

a)
$$x = -3$$

b)
$$x = 6$$

c)
$$x = -4$$

Determine the values of x for each of the following values of y.

HOMEWORK

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#4, #5, #7, #9