Warm Up

1) Sketch the graph for the following

(a))
$$y = \frac{1}{3}x - 5$$

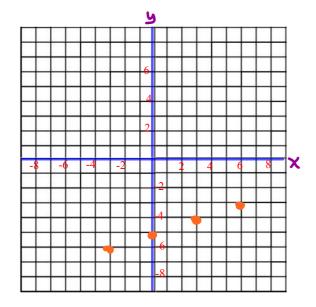
$$\frac{\Delta y}{\Delta \chi} = \frac{1}{3} \rightarrow \frac{-1}{-3} \quad (0,-5)$$

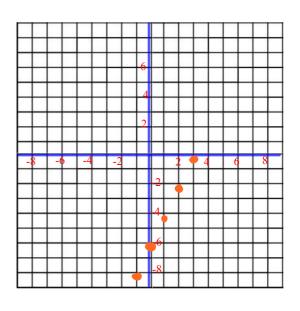
$$2x-y=6$$

$$-y=-2x+6$$

$$y=2x-6$$

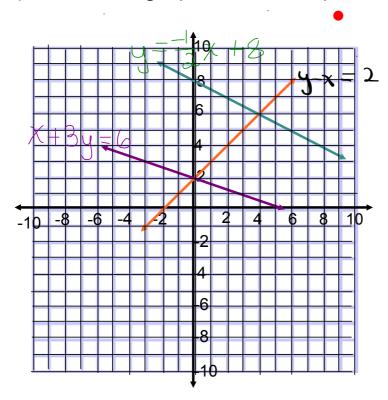
$$\frac{\Delta y}{\Delta x} = \frac{2}{1} \qquad (0,-6)$$





Warm Up

2) Match the graph with the equation



a)
$$x + 3y = 6$$

$$\frac{\Delta y}{6x} = \frac{-1}{3} \rightarrow (0.2)$$

b)
$$y = -\frac{1}{2}x + 8$$

$$\frac{\Delta y}{\delta x} = \frac{-1}{2} \qquad (0.8)$$

c)
$$y = x + 2$$

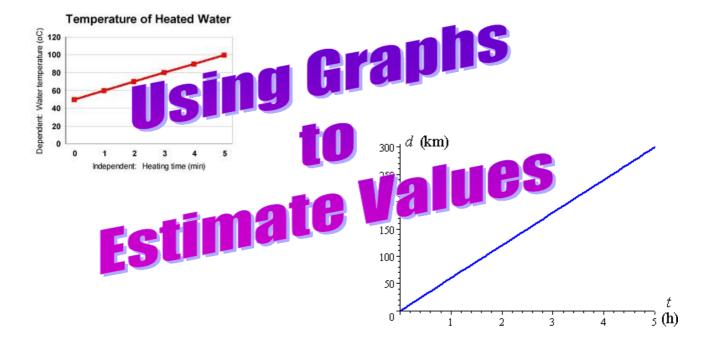
$$\frac{\Delta y}{6x} = \frac{1}{1} \qquad (0.2)$$



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

4) Determine if the following are linear or non-linear. If it is linear determine the equations.

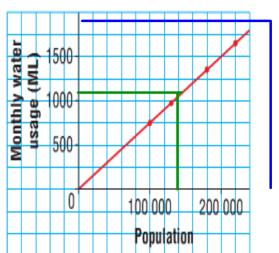
a)	X	У	b)	t	ا ا
	5	27		<u> </u>	u
	•	27 32 37		1	12
	6	32			
	7	37		2	9
	1			3	6



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

Popula	tion	Monthly Water Usage (ML)
100 0	00	750
130 0	00	975
180 0	00	1350
220 0	00	1650

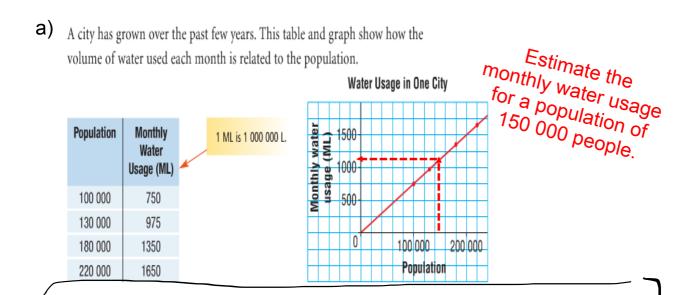


a) Estimate the monthly water usage for a population of 150 000 people.

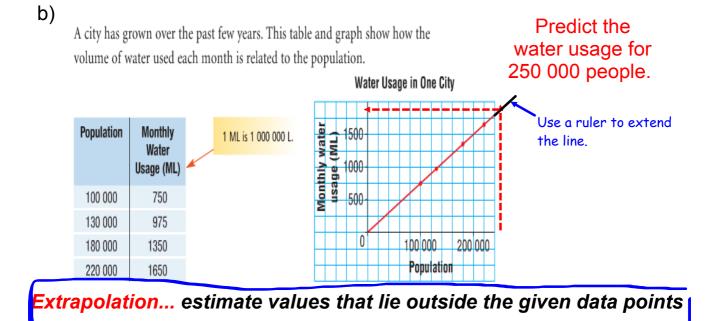
~ 1300

b) Predict the water usage for 250 000 people.

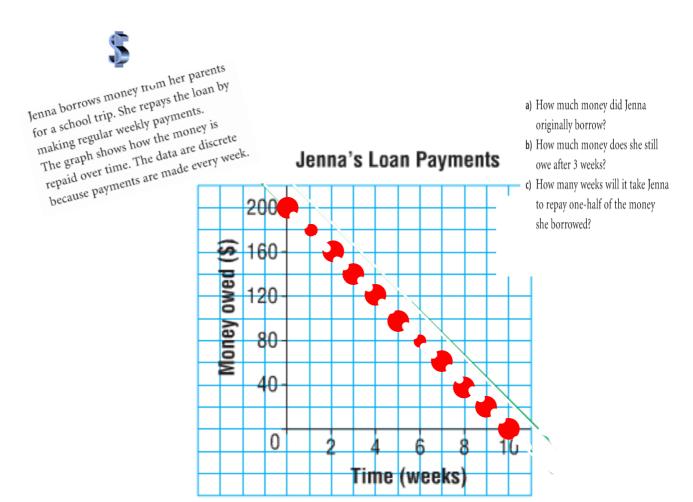
1700 - 2000



Interpolation... estimate values that lie between two data points ω 9th in 5raph

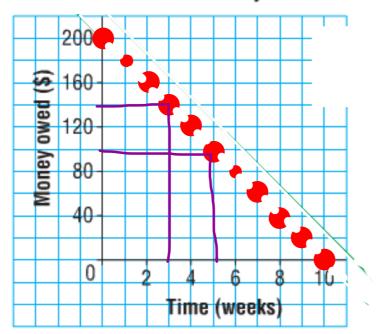


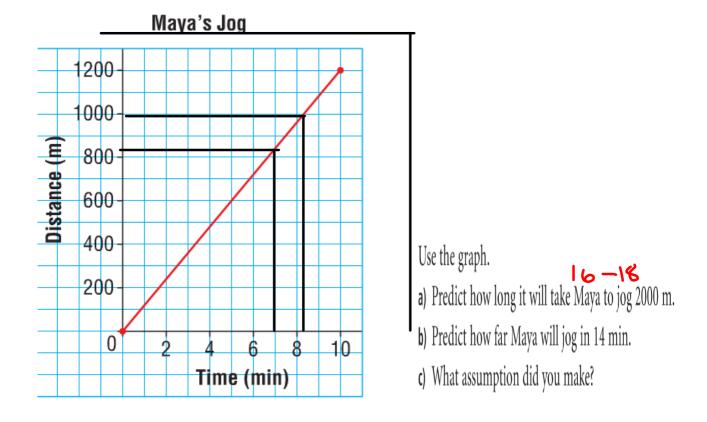
out side graph



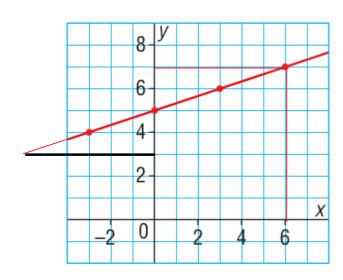
- a) How much money did Jenna originally borrow?
- b) How much money does she still owe after 3 weeks?
- to repay one-half of the money she borrowed?

Jenna's Loan Payments





Which questions can be answered using interpolation?



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

a)
$$x = -3$$

b)
$$x = 4$$

a)
$$x = -3$$
 b) $x = 4$ c) $x = -4$

Determine the values of xfor each of the following values of y.

a)
$$y = 3$$
 b) $y = 7$ c) $y = -3$

c)
$$y = -3$$

Which questions will have to be answered using extrapolation?

HOMEWORK

Page 196 - 197

#4, #5, #7, #9

Homework Questions??

Unit test Thursday

Pg 197-198

Questions 8,9,10,11,12,13,14



Review for Test Page 201 - 203

1(c, d, e, f, g),	12,
4,	
5(b, c),	13,
8,	14,
10,	15,
11,	17