

Name \_\_\_\_\_  
Algebra

Date \_\_\_\_/\_\_\_\_/\_\_\_\_  
Mr. Towne

4.2 Homework  
Day #2

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{\Delta y}{\Delta x} = \frac{\text{rise}}{\text{run}} = \frac{\text{change in } y}{\text{change in } x}$$

$$y = \underset{\substack{\text{y-int} \\ \downarrow}}{a} + \underset{\substack{\text{slope} \\ \downarrow}}{b} x$$

1) For each table, find the slope, the y-intercept, and the equation through the points.

x	y
0	18
3	6
5	-2

x	y
-1	7
4	17
9	27

x	y
-1	1
4	7
9	13

slope =

slope =

slope =

y-intercept =

y-intercept =

y-intercept =

equation:

equation:

equation:

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2) Write down what has happened on each line in the work shown below.

$$6 + 3\left(\frac{4x-1}{5}\right) = 27$$

$$3\left(\frac{4x-1}{5}\right) = 21$$

$$\frac{4x-1}{5} = 7$$

$$4x-1 = 35$$

$$4x = 36$$

$$x = 9$$

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$$6 + 3\left(\frac{4x-1}{5}\right) = 27$$

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$$4x-1 = 35$$

$$4x = 36$$

$$x = 9$$

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