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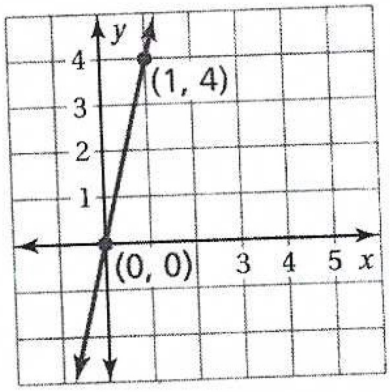
HOMEWORK: December 14

Created for you by Ms. Nhotsoubanh

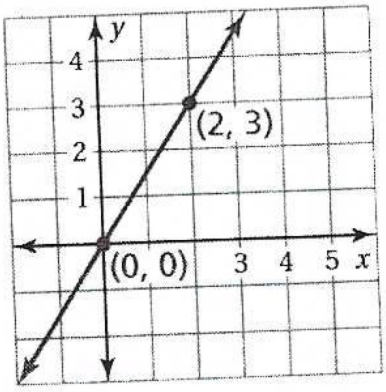
Directions: Find the slope of the line in shown in each graph.

1)



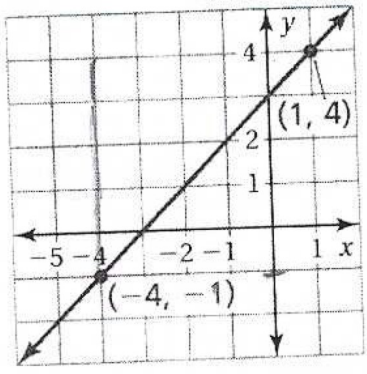
Slope = $\frac{\text{rise}}{\text{run}} = \frac{4}{1}$

2)



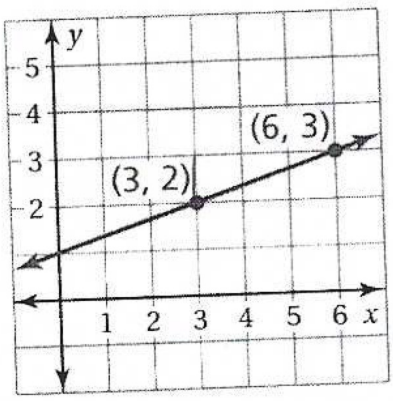
Slope = $\frac{\text{rise}}{\text{run}} = \frac{3}{2}$

3)



Slope = $\frac{\text{rise}}{\text{run}} = \frac{5}{5}$

4)



Slope = $\frac{\text{rise}}{\text{run}} = \frac{1}{3}$

Name: Key

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Glue on page 48

5) An atlas contains a map of Ohio. The table shows data from the key on the map.

Distance on Map (mm), x	10	20	30	40
Actual Distance (mi), y	25	50	75	100

Graph the data, use the grid provided on the other side. Then answer the questions below. Show work.

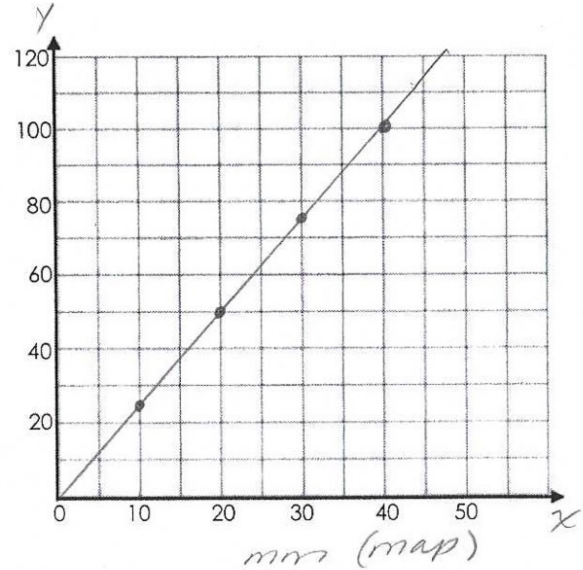
b. Find the slope of the line. What does this mean in the context of the problem? $m = \frac{5\text{ mi}}{2\text{ mm}}$ Every 2 mm is equivalent to 5 mi on the map

c. The map distance between Toledo and Columbus is 48 millimeters. What is the actual distance?

120 mi

d. Cincinnati is about 225 miles from Cleveland. What is the distance between these cities on the map?

90 mm



actual distance
miles

$m = \frac{\text{rise}}{\text{run}} = \frac{y}{x} = \frac{25}{10} = \frac{5}{2}$

$y = \frac{5}{2}x$ equation

c.) $y = \frac{5}{2}x$ or $\frac{5}{2} = \frac{x}{48}$

$y = \frac{5}{2}(48)$

$y = 120$ mi

$2x = 5(48)$

$\frac{2}{2}x = \frac{240}{2}$

$x = 120$ mi

d.) $(2)225 = \frac{5}{2}x\,(2)$

$\frac{450}{5} = \frac{5x}{5}$

$90 = x$