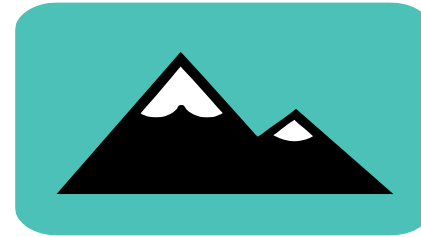


4.2

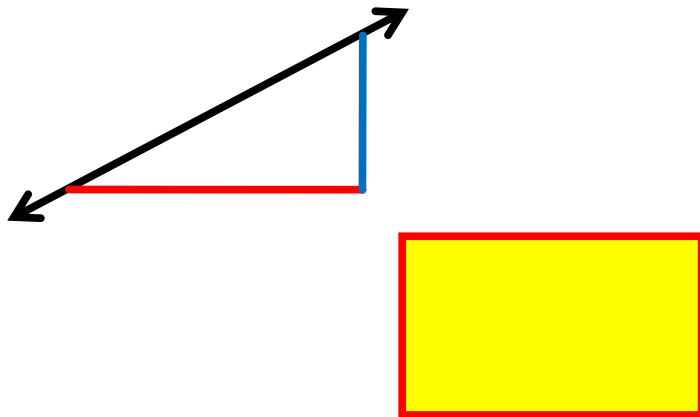
Slope of a Line

SLOPE

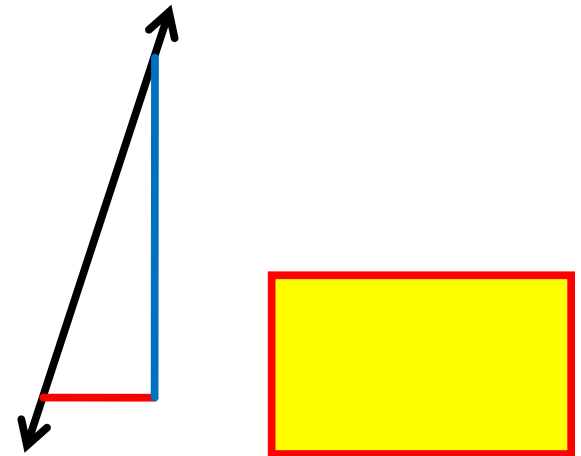
This is the measure of steepness



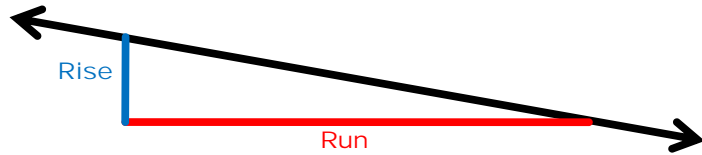
SLOPE OF A LINE



SLOPE OF A LINE

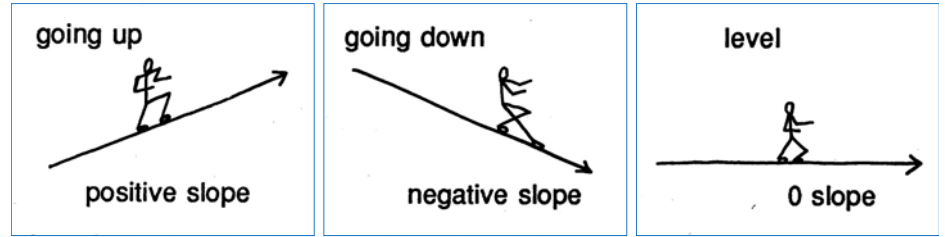


SLOPE OF A LINE

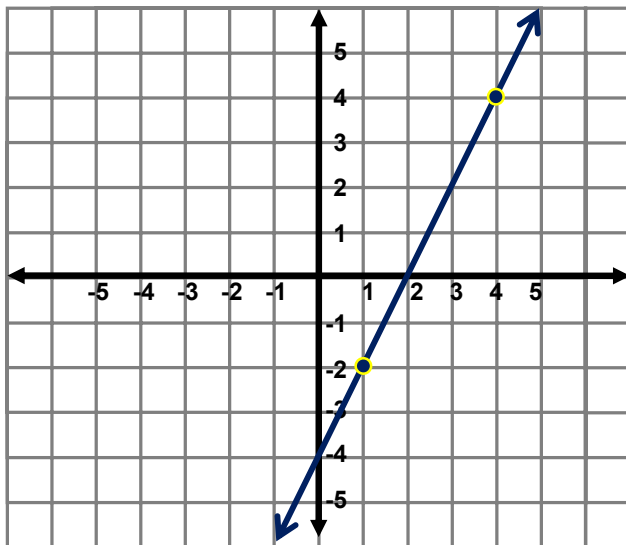


$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

SLOPE OF A LINE

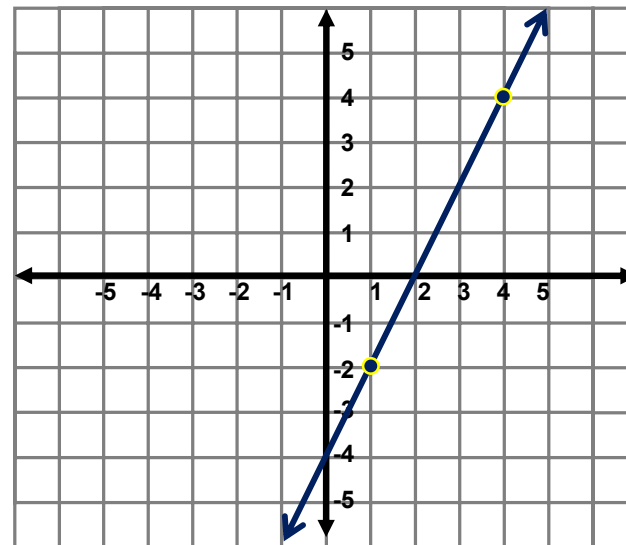


SLOPE OF A LINE



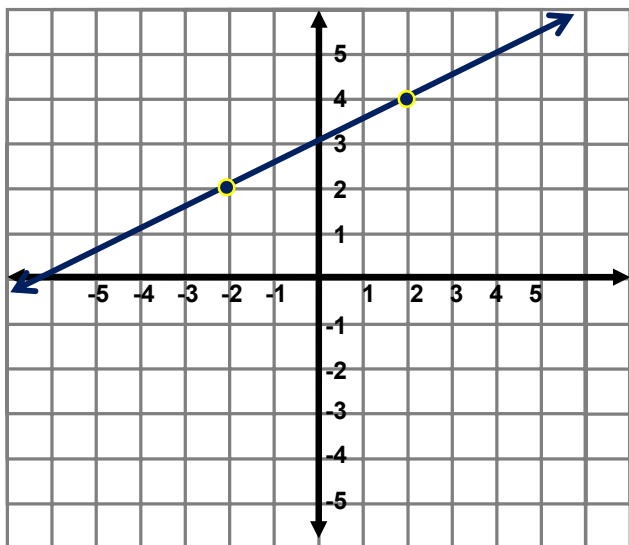
$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

SLOPE OF A LINE



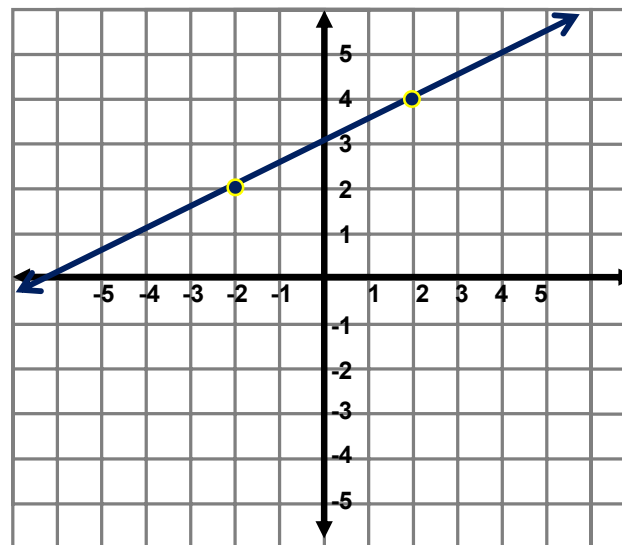
$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

SLOPE OF A LINE



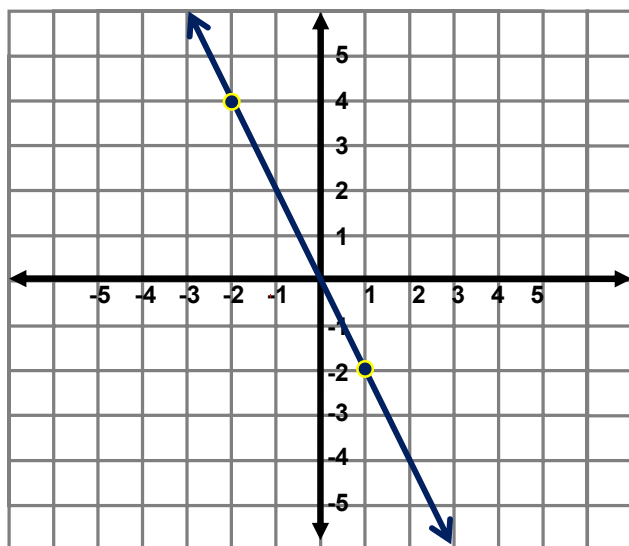
$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

SLOPE OF A LINE



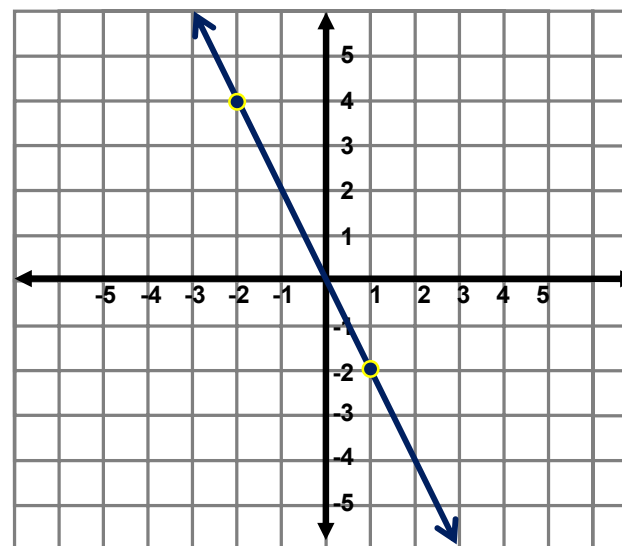
$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

SLOPE OF A LINE



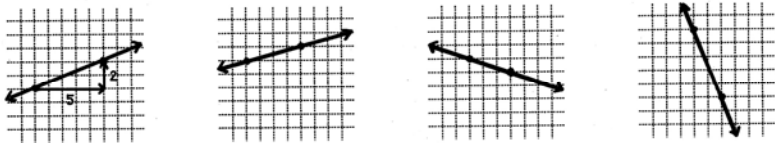
$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

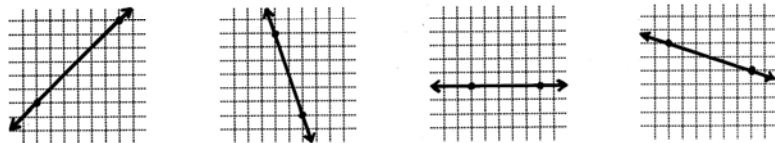
SLOPE OF A LINE



$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

Find the slope of each line. Simplify the slope or write it as an integer if you can.

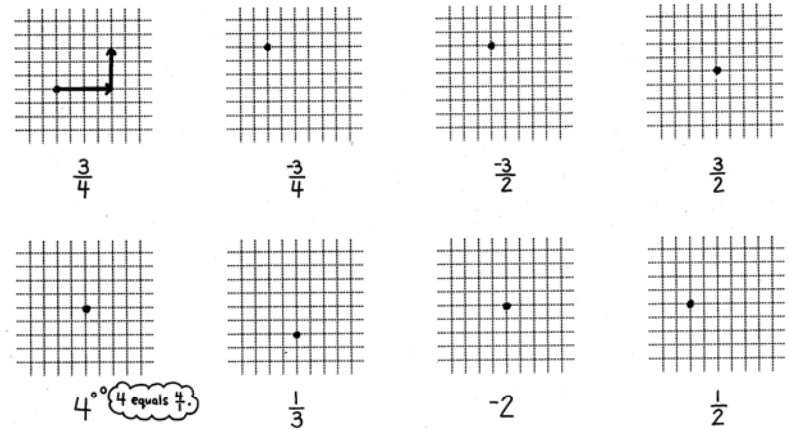




Through each point draw a line that has the slope shown below the grid. Use a ruler.



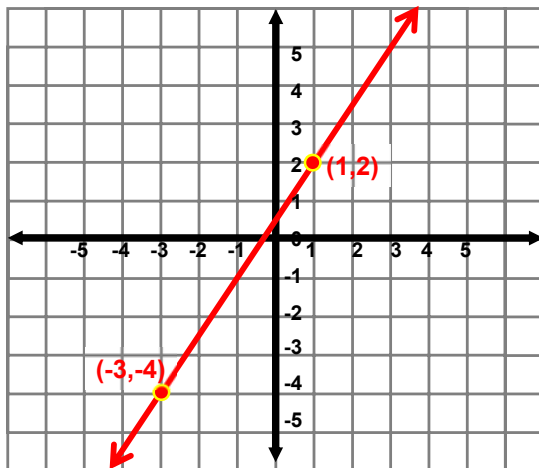
Through each point draw a line that has the slope shown below the grid. Use a ruler.



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SLOPE FORMULA

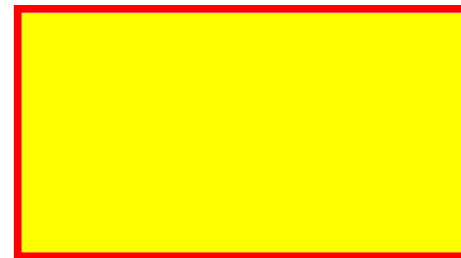
$(-3, -4)$ and $(1, 2)$



SLOPE FORMULA

$(-3, -4)$ and $(1, 2)$

If you do not have the graph of a line use...



SLOPE FORMULA



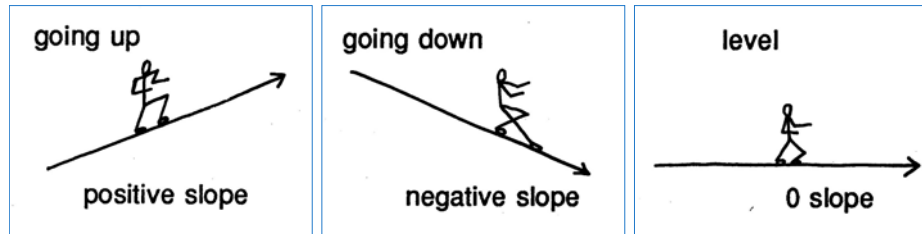
Find the slope between the two points:

1) $(7, -6)$ and $(-5, 2)$

2) $(-2, 3)$ and $(4, 8)$

3) $(6, 3)$ and $(2, 0)$

SLOPE OF A LINE

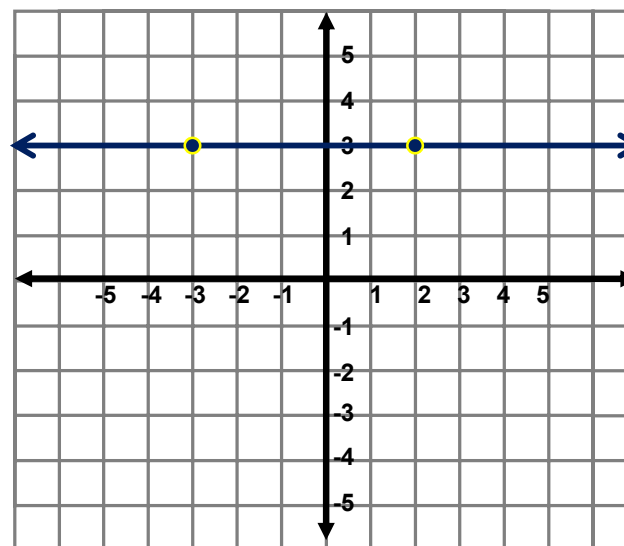


ZERO SLOPE VS UNDEFINED (NO SLOPE)

$$\frac{0}{5}$$

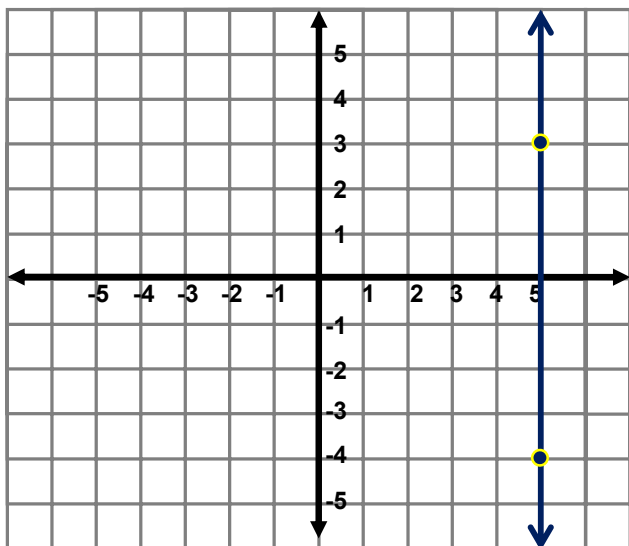
$$\frac{5}{0}$$

SLOPE OF A LINE



$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

SLOPE OF A LINE



$$\text{slope} = \frac{\text{rise}}{\text{run}}$$

SLOPE FORMULA

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope between the two points:

1) $(0, 7)$ and $(-4, -1)$

2) $(-2, 5)$ and $(9, 5)$

SLOPE FORMULA

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Find the slope between the two points:

3) $(11, -8)$ and $(3, 4)$

4) $(-3, 9)$ and $(-3, 5)$