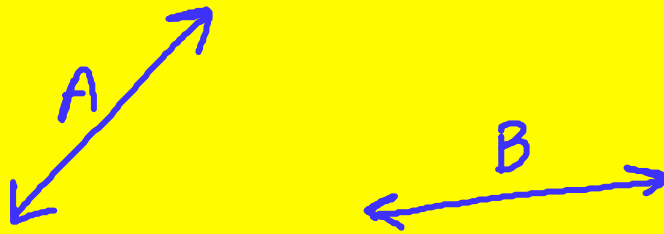


Slope

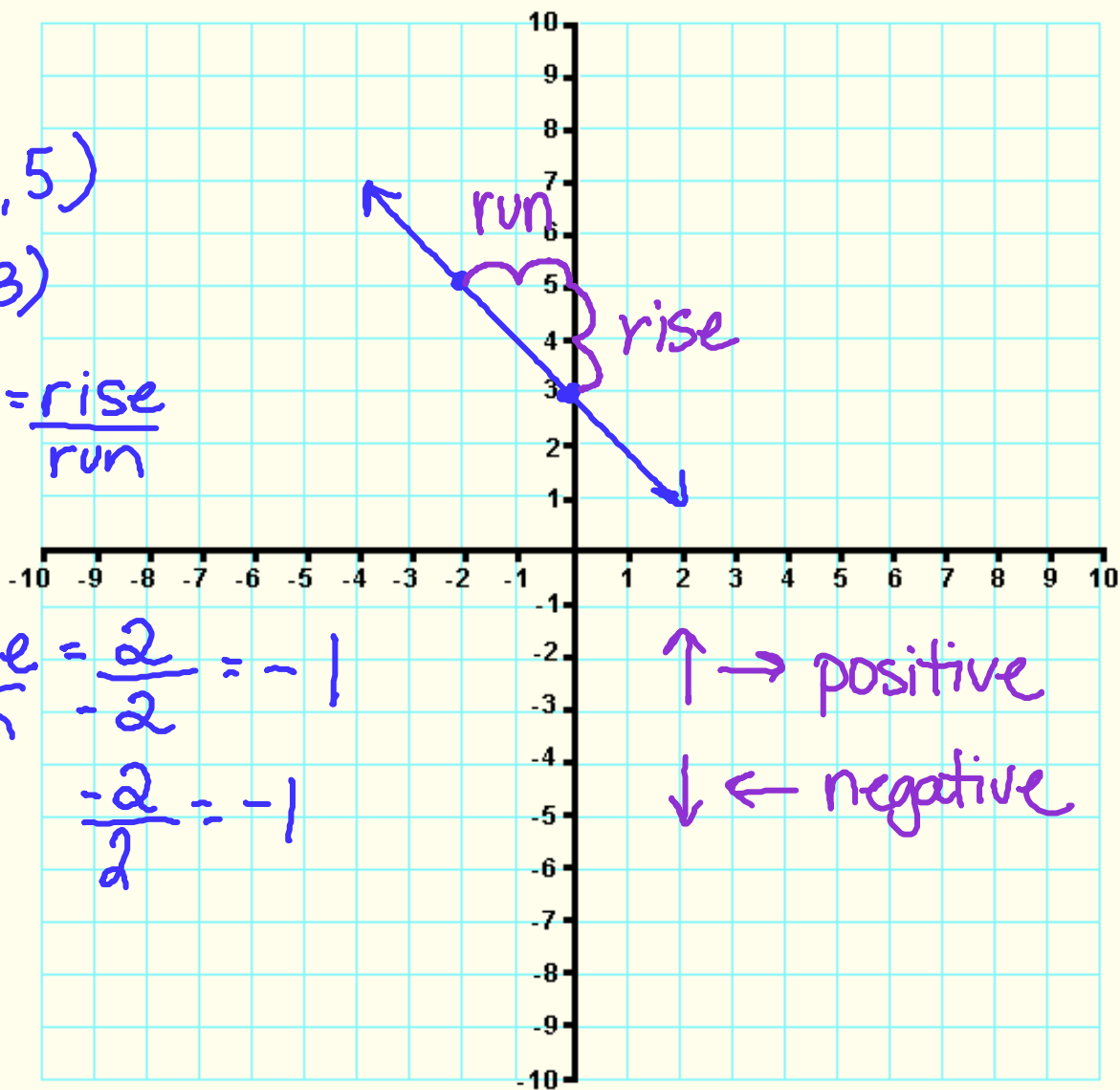
Slope - the steepness of a line



$(-2, 5)$

$(0, 3)$

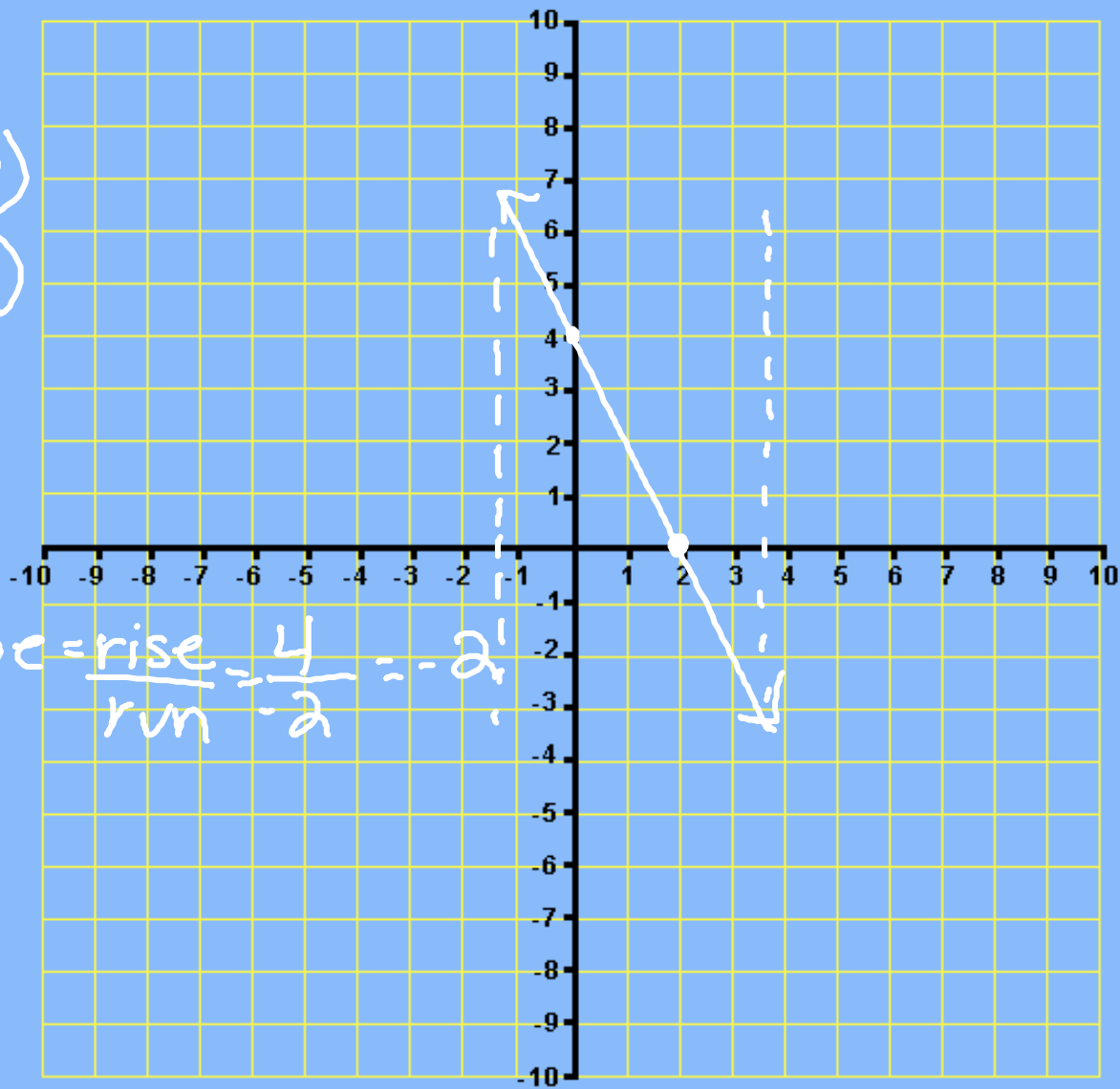
$$\text{slope} = \frac{\text{rise}}{\text{run}}$$



$$\frac{\text{rise}}{\text{run}} = \frac{2}{-2} = -1$$

$$\frac{-2}{2} = -1$$

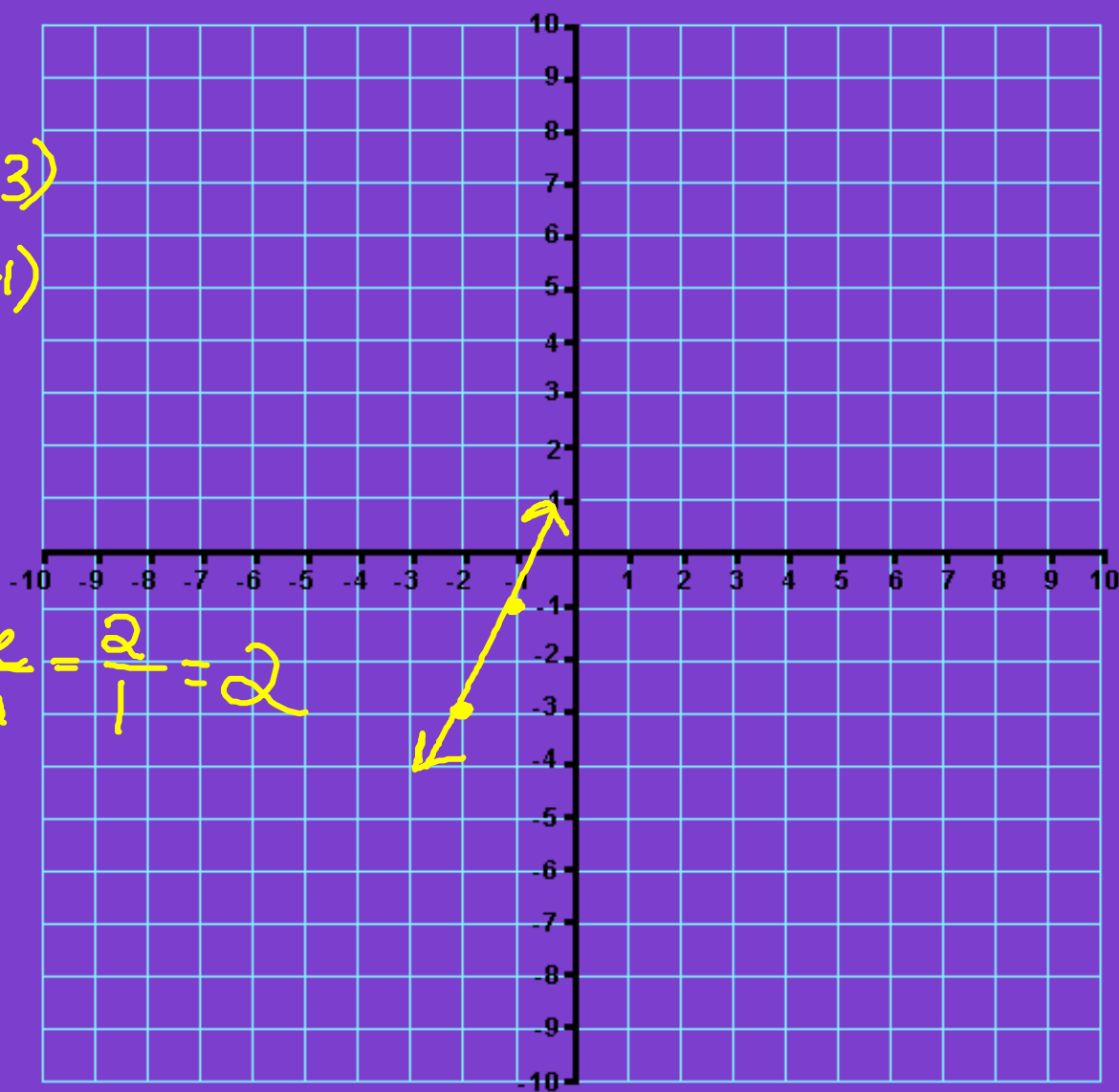
$(2,0)$
 $(0,4)$



$$\text{slope} = \frac{\text{rise}}{\text{run}} = \frac{4}{-2} = -2$$

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

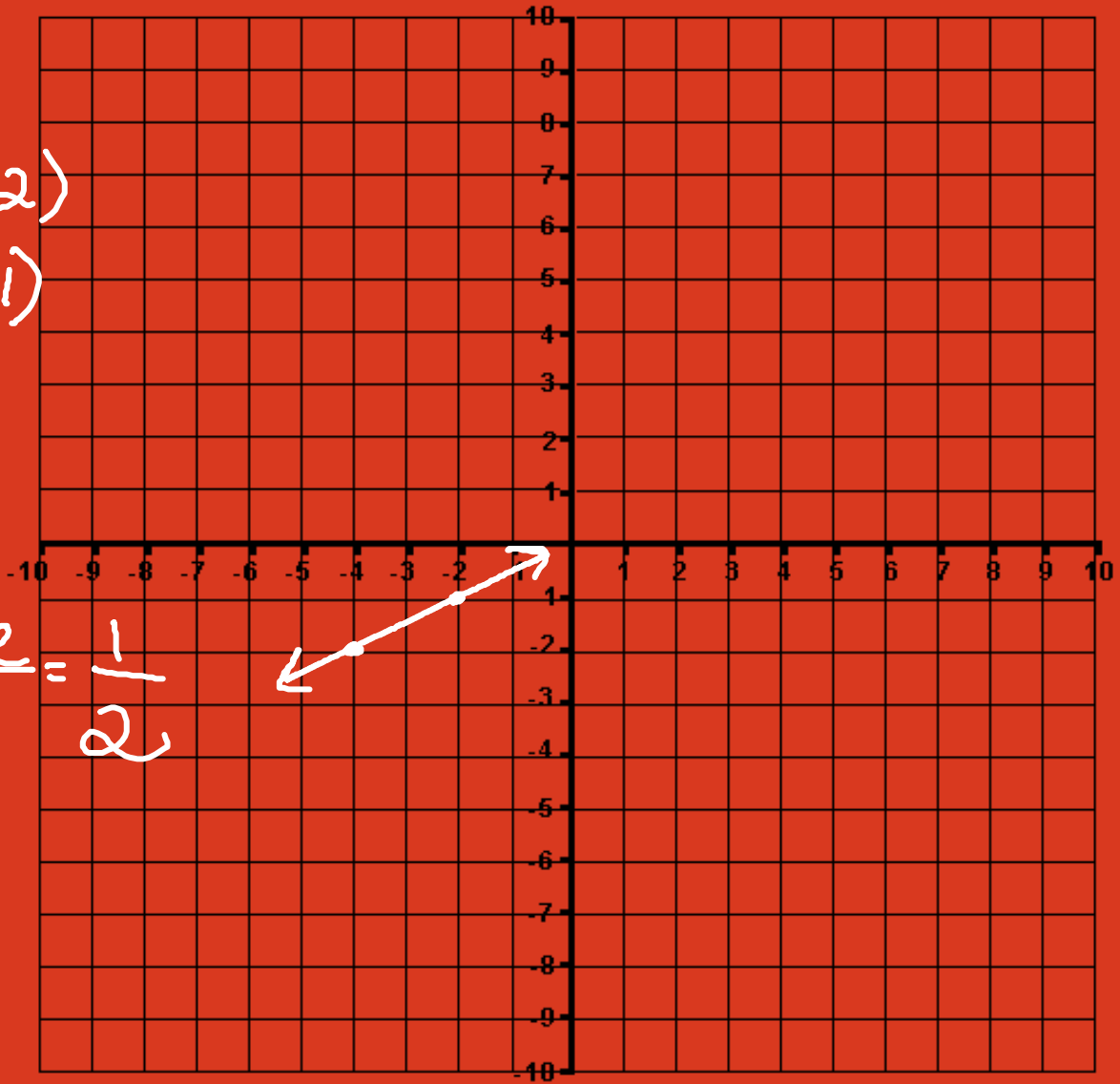
$$\frac{\text{rise}}{\text{run}} = \frac{2}{1} = 2$$



$(-4, 2)$

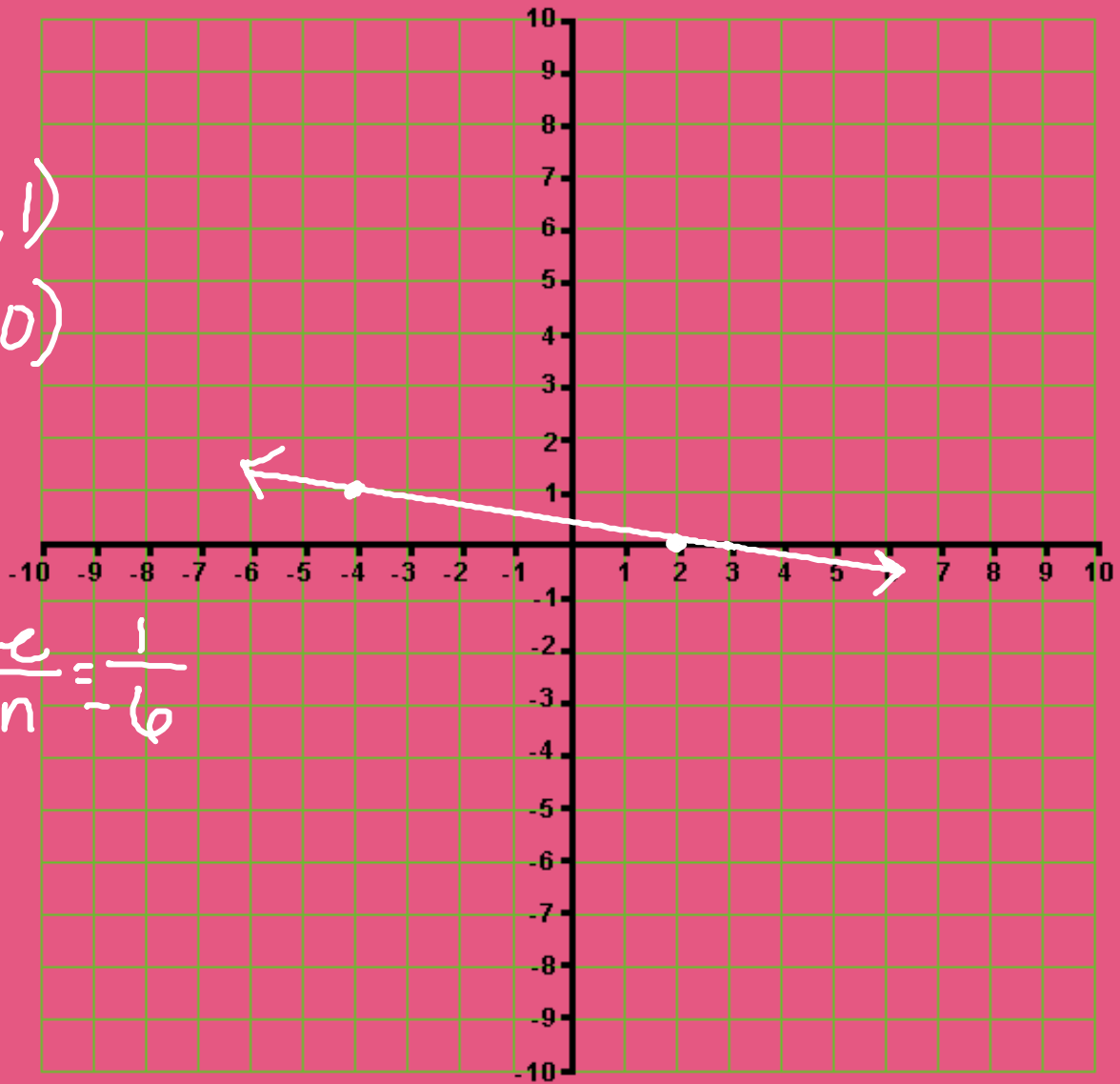
$(-2, -1)$

$$\frac{\text{rise}}{\text{run}} = \frac{1}{2}$$



$(-4, 1)$

$(2, 0)$



$$\frac{\text{rise}}{\text{run}} = \frac{1}{-6}$$

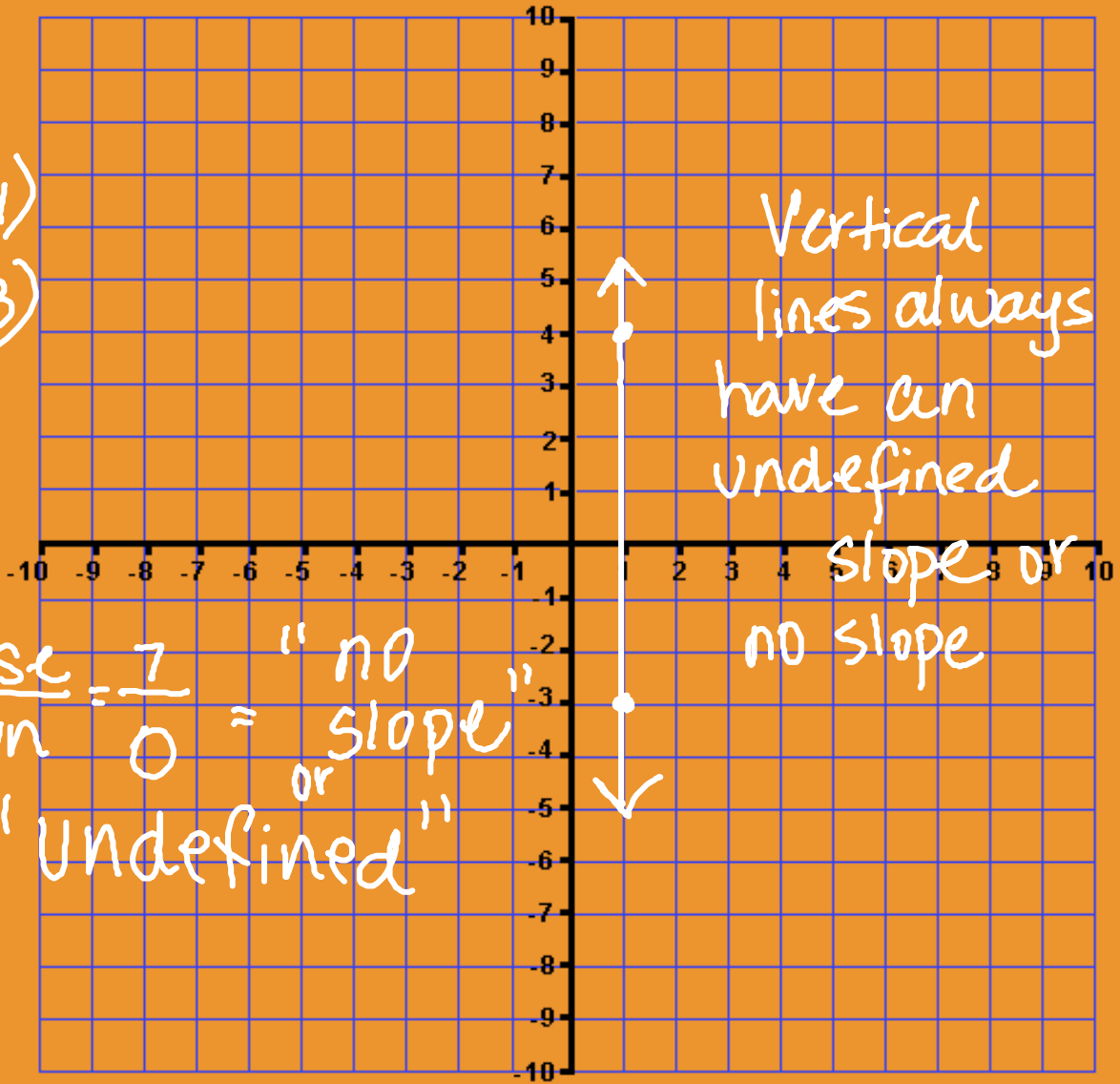
$(1, -2)$
 $(-5, -2)$

Horizontal lines
always have a
slope of 0.



$$\frac{\text{rise}}{\text{run}} = \frac{0}{-6} = 0$$

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



$$\frac{\text{rise}}{\text{run}} = \frac{7}{0} = \text{"no slope" or "undefined"}$$

