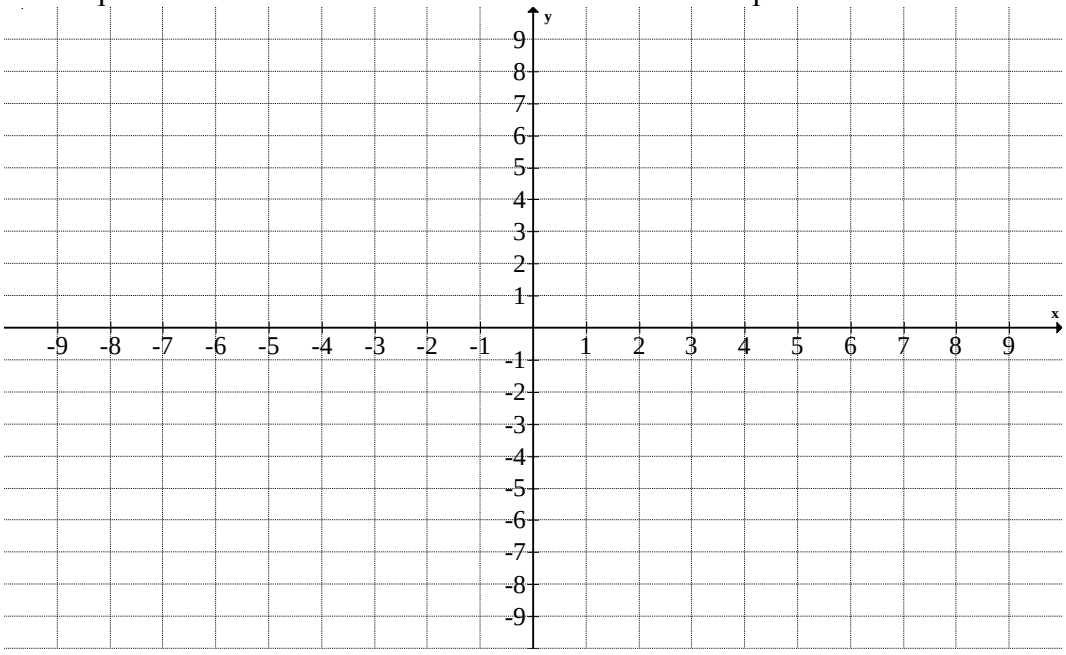
TRS 92: Slope in Many Forms

1. On the grid below, place a point at (0, 3). Starting at that point, create a line with the slope of $\frac{1}{-4}$ using the concept of "rise over run". Draw the line with a colored pencil.

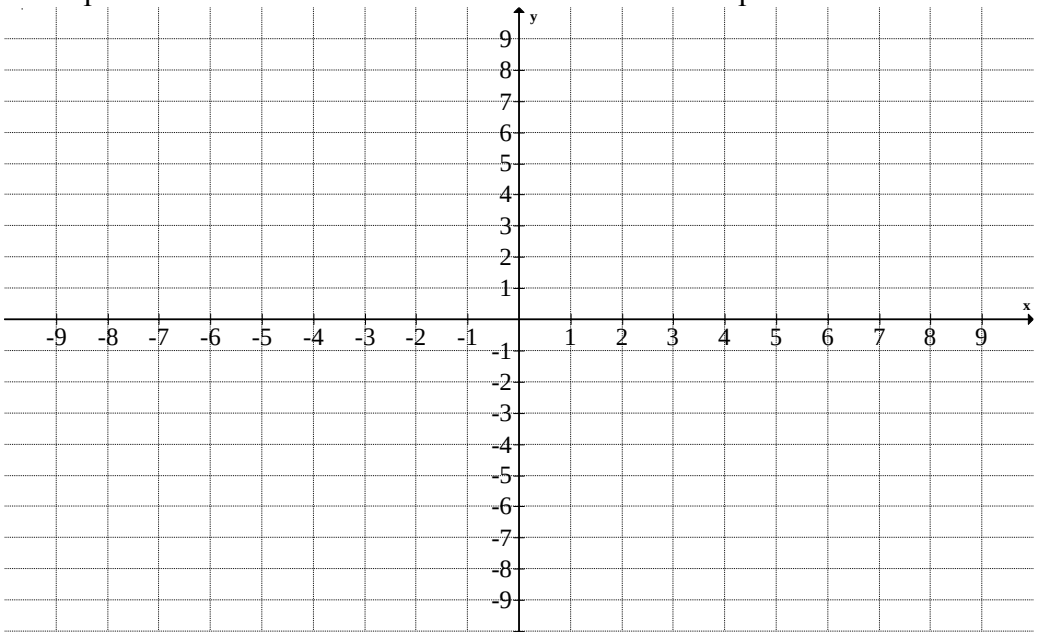


2. On the same grid and starting at the same point (0, 3), create a line with the slope of $\frac{-1}{4}$. Use a different color of pencil for this line.

3. What do you notice about the two lines? What does this tell you about the fractions $\frac{1}{-4}$ and $\frac{-1}{4}$?

4. What would a slope of $-\frac{1}{4}$ mean?

5. On the grid below, place a point at (0, 3). Starting at that point, create a line with the slope of $\frac{1}{4}$ using the concept of "rise over run". Draw the line with a colored pencil.



6. On the same grid and starting at the same point (0, 3), create a line with the slope of $\frac{-1}{-4}$. Use a different color of pencil for this line.

7. What do you notice about the two lines? What does this tell you about the fractions $\frac{1}{4}$ and $\frac{-1}{-4}$?

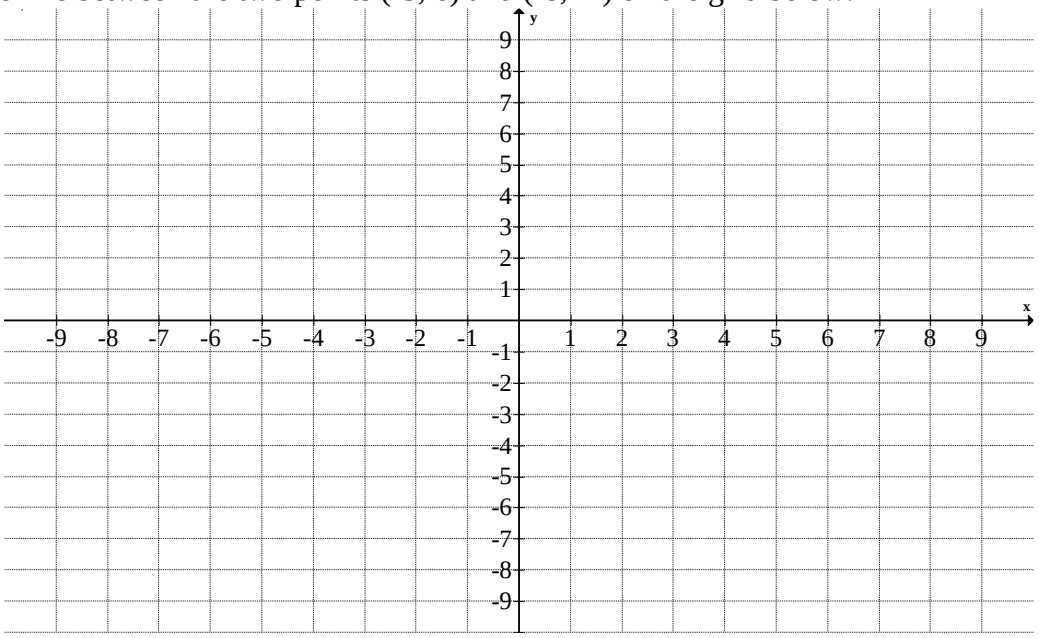
8. Convert each of the fractions to a decimal:

$\frac{-1}{4} =$ _____ $\frac{1}{-4} =$ _____ $-\frac{1}{4} =$ _____ $\frac{-1}{-4} =$ _____ $\frac{1}{4} =$ _____

9. Circle all the expressions that are equal to $-\frac{3}{10}x$:

$\frac{-3}{-10}x$	$\frac{-3x}{10}$	$-0.3x$	$-\frac{3}{10x}$
$0.3x$	$\frac{-3}{10}x$	$-\frac{1}{0.3}x$	$\frac{3}{-10}x$

10. Graph the line between the two points (-3, 6) and (-8, -2) on the grid below.



a. Is the slope of the line negative or positive?

b. Calculate the slope of the line. Show your work.