

Slope of a Line

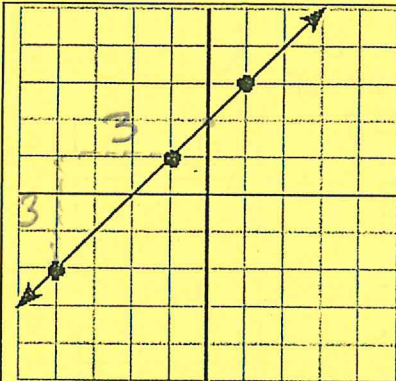
Slope #1 HW # 71

$y = mx + b$
 slope
 y-int.



Name: KEY

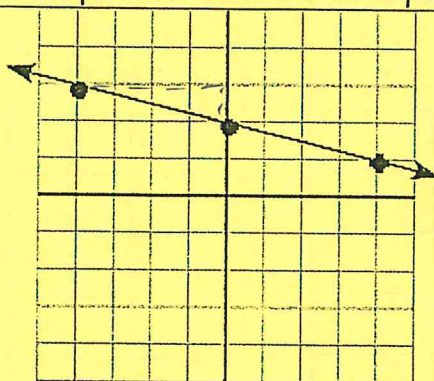
Find the slope of the following lines. First, make a slope triangle and find the ratio. Next, find the y-intercept and write the equation of each line.



Method 1: $\frac{\text{rise}}{\text{run}} = \frac{3}{3} = \boxed{1}$

y-int: (0, 2)

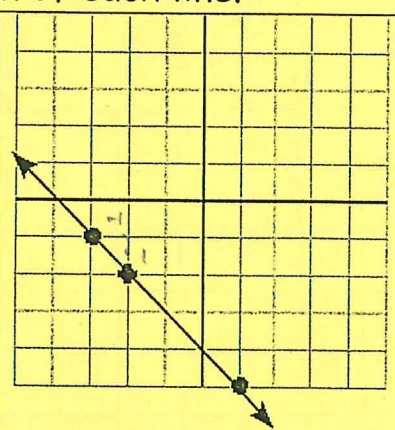
Equation: $y = x + 2$



Method 1: $\frac{\text{rise}}{\text{run}} = \frac{-1}{4} = \boxed{-\frac{1}{4}}$

y-int: (0, 2)

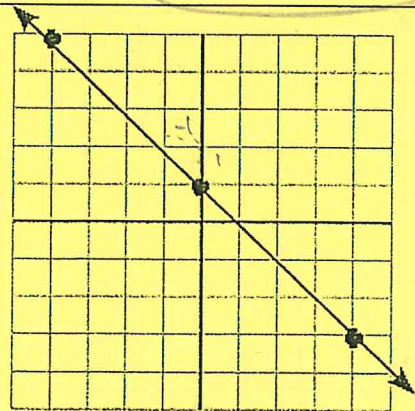
Equation: $y = -\frac{1}{4}x + 2$



Method 1: $\frac{\text{rise}}{\text{run}} = \frac{-1}{1} = \boxed{-1}$

y-int: (0, -4)

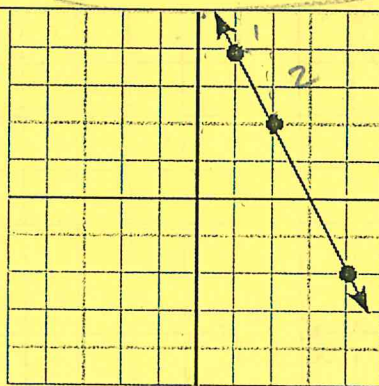
Equation: $y = -x - 4$



Method 1: $\frac{\text{rise}}{\text{run}} = \frac{-1}{1} = \boxed{-1}$

y-int: (0, 1)

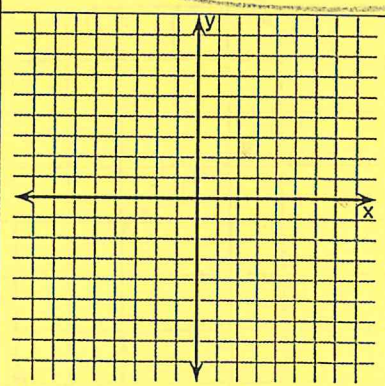
Equation: $y = -x + 1$



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

y-int: (0, 6)

Equation: $y = -2x + 6$



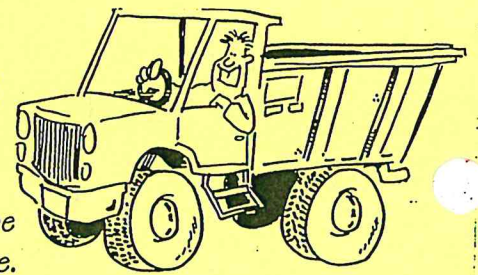
Create your own!

Method 1: $\frac{\text{rise}}{\text{run}} = \boxed{}$

y-int: _____

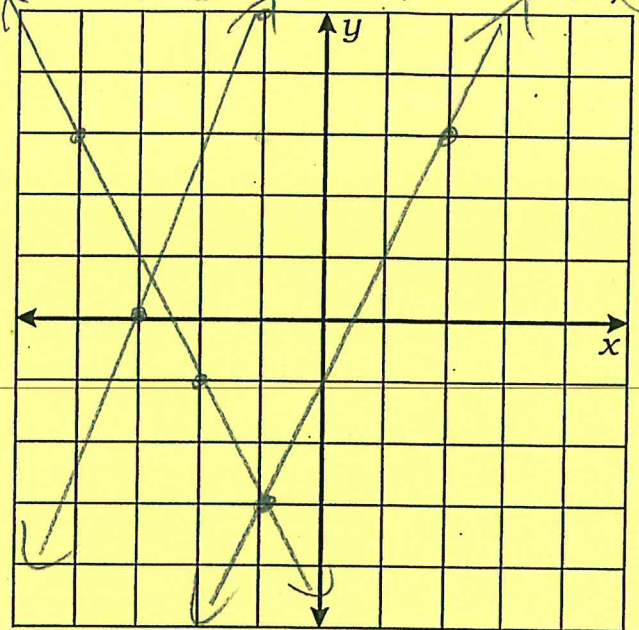
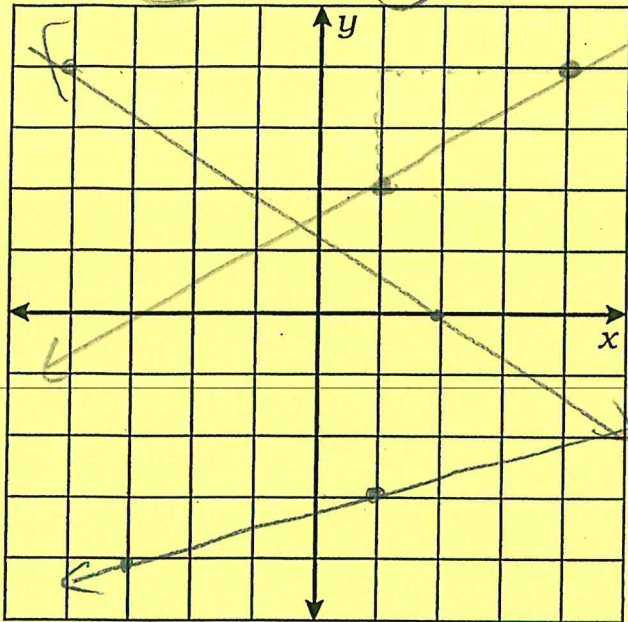
Equation: _____

What Did the Inventor of the 10-Ton Truck So Often Say?



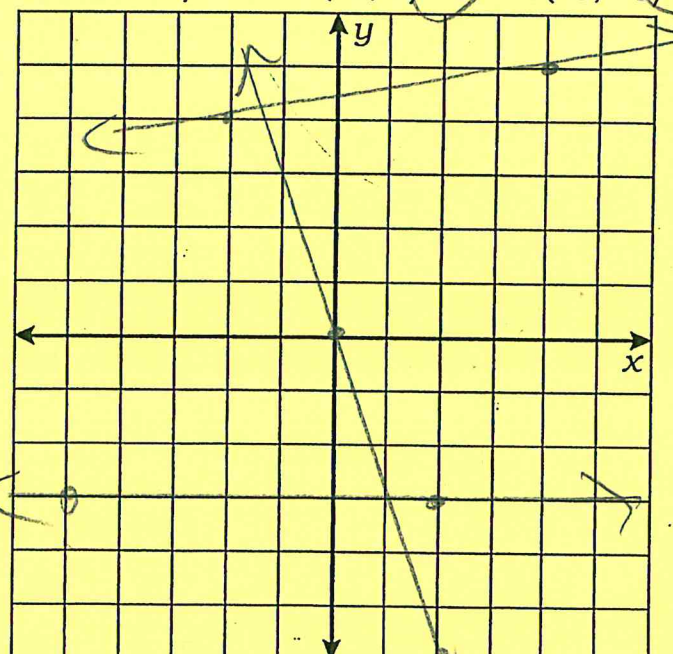
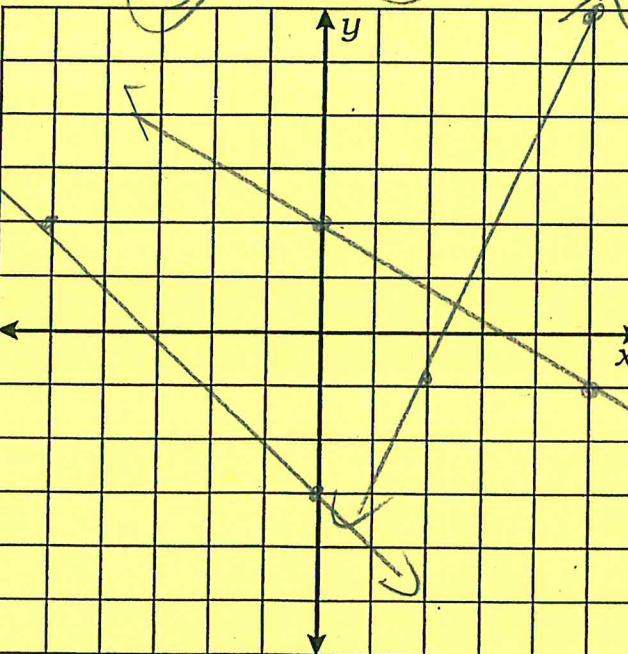
For each exercise, draw a line through the two given points. Find the slope of this line. Write the letter of the exercise in the box containing the slope.

- B** (4, 4) $\frac{2}{3}$ **E** (2, 0) $-\frac{2}{3}$ **O** (1, -3) $\frac{1}{4}$ **I** (-1, -3) 2 **E** (-4, 3) -2 **O** (-3, 0) $\frac{5}{2}$
 (1, 2) $\frac{2}{3}$ (-4, 4) $-\frac{2}{3}$ (-3, -4) $\frac{1}{4}$ (2, 3) 2 (-2, -1) -2 (-1, 5) $\frac{5}{2}$



- E** (0, 2) $-\frac{3}{5}$ **D** (5, 6) $\frac{7}{3}$ **L** (-5, 2) 0
 (5, -1) $-\frac{3}{5}$ (2, -1) $\frac{7}{3}$ (0, -3) 0

- D** (0, 0) -3 **G** (4, 5) $\frac{1}{6}$ **S** (2, -3) 0
 (2, -6) -3 (-2, 4) $\frac{1}{6}$ (-5, -3) 0



$\frac{1}{3}$	$-\frac{3}{5}$	$\frac{2}{3}$	$-\frac{2}{3}$	0	-2	-1	$-\frac{7}{2}$	$\frac{2}{3}$	$-\frac{3}{5}$	$-\frac{1}{5}$	$\frac{1}{6}$	$\frac{5}{2}$	$\frac{1}{4}$	$\frac{7}{3}$	3
	D	I	E	S	E	L		B	E		G	O	O	D	

