

LINEAR FUNCTIONS

RC#3

Slope

SLOPE measures the _____ of a line.

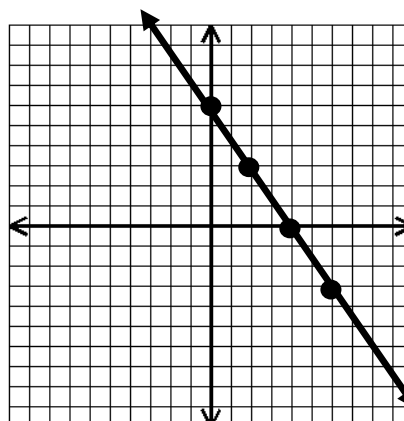
Slope is the **CONSTANT RATE OF CHANGE**.

SLOPE = _____ or _____

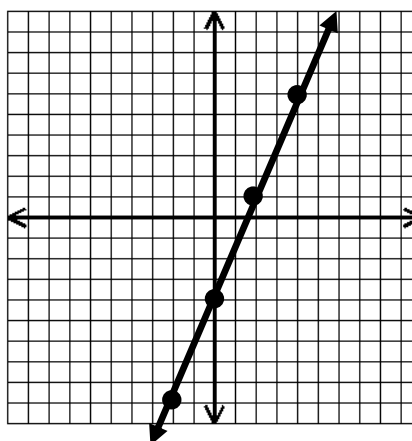
Output =  (input) + 

$$f(x) = \text{change}(x) + b$$

What is the rate of change of each line shown?

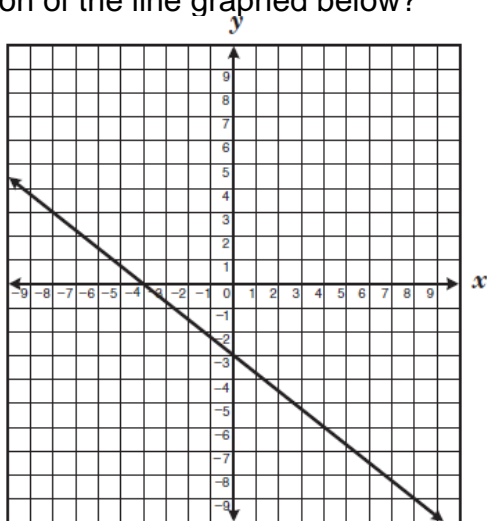


$m = \underline{\hspace{2cm}}$



$m = \underline{\hspace{2cm}}$

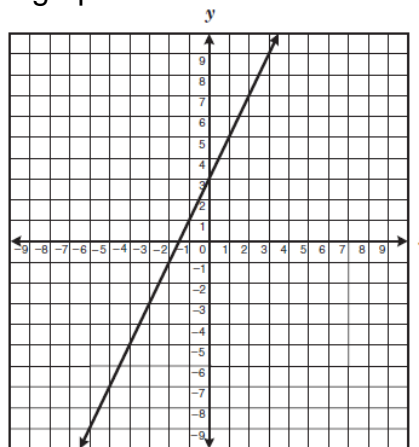
What are the slope, y-intercept and x-intercept of the equation of the line graphed below?



Slope: _____

y-intercept: _____ x-intercept: _____

The graph of a line is shown below.



If the slope of this line is multiplied by -1 and the y-intercept decreases by 2 units, which linear equation represents these changes?

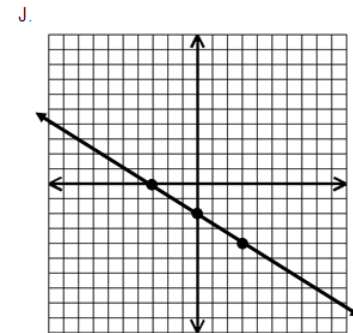
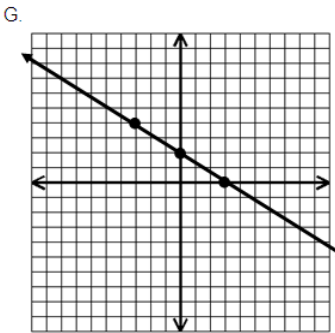
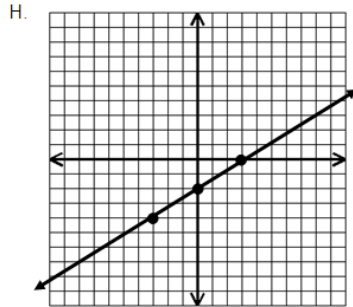
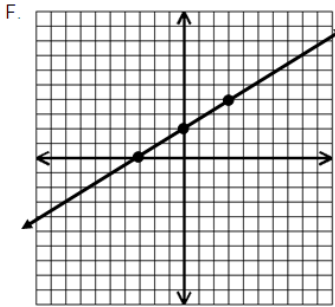
F. $y = -2x + 1$

H. $y = -x - 1$

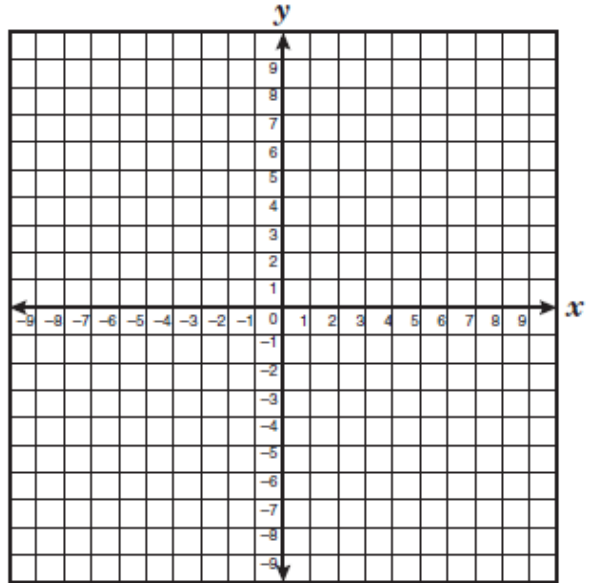
G. $y = -x + 1$

J. $y = -\frac{1}{2}x - 1$

Which graph represents the equation $2x - 3y = 6$?



How does the graph of $y = 2x - 5$ compare to the graph of $y = 3x - 5$?



- F. The slope of $y = 2x - 5$ is less steep.
- G. The slope of $y = 2x - 5$ is steeper.
- H. The graph of $y = 2x - 5$ has a greater y-intercept.
- J. The graph of $y = 2x - 5$ has a smaller y-intercept.

Which equation describes the line that passes through the point $(4, 7)$ and is parallel to the line represented by the equation $-3x + y = 4$?

F. $y = 3x + 19$

H. $y = \frac{1}{3}x + 5\frac{2}{3}$

G. $y = 3x - 5$

J. $y = -\frac{1}{3}x + 8\frac{1}{3}$

Which line has a slope of zero?

Which line has an undefined slope?

Remember:

VUX

HOY

