

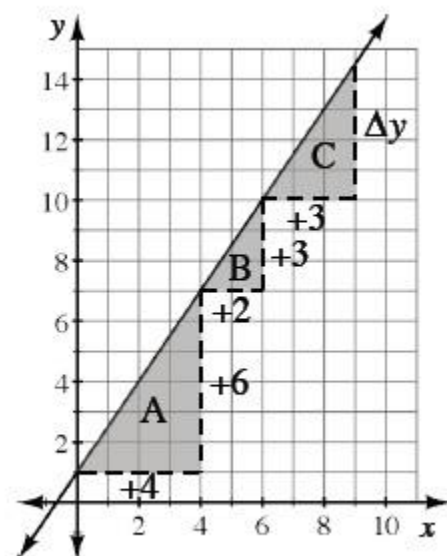
# SLOPE

## Comparing $\Delta x$ and $\Delta y$

**FIRST!!!** Find the line graphed at right with slope triangles A, B, and C

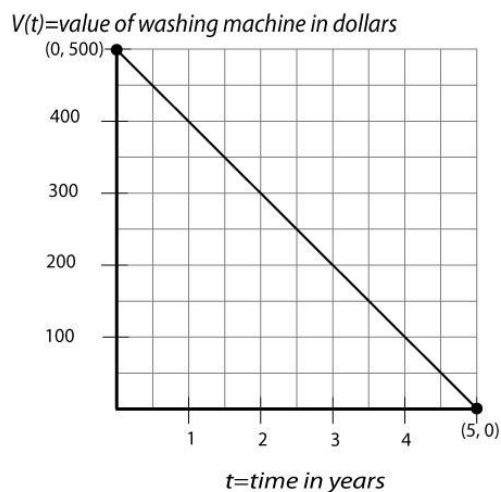
a. Find the slope using slope triangles A and B. What do you notice?

b. What is the vertical distance ( $\Delta y$ ) of slope triangle C?  
Explain your reasoning.



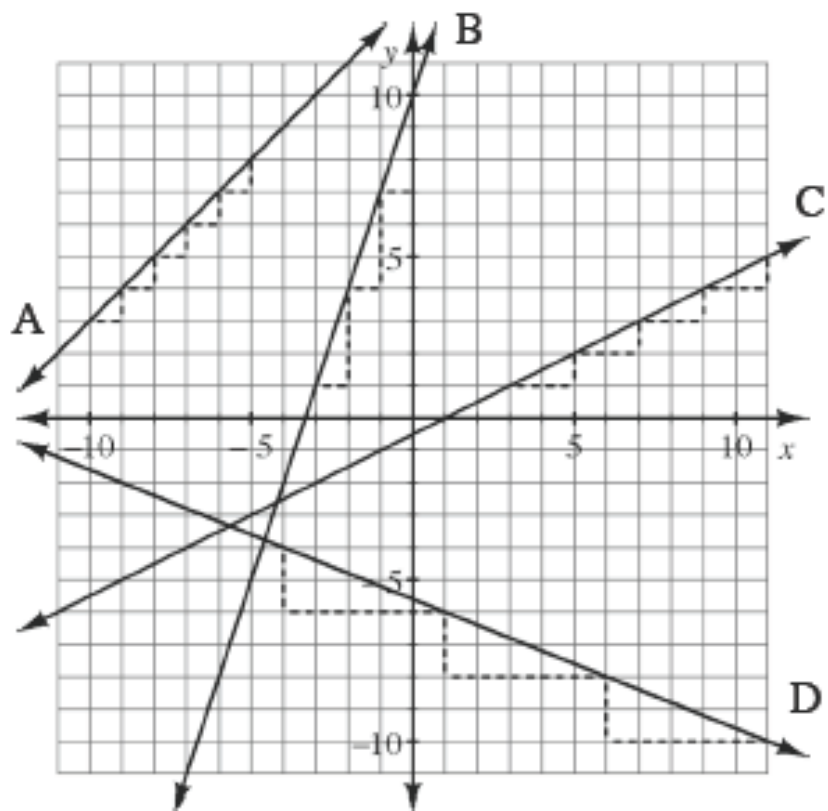
**Next!!!!**

Draw a slope triangle on the line with a horizontal distance ( $\Delta x$ ) of 1 unit. Find the vertical distance ( $\Delta y$ ).



GOOD GRAPH of  $V(t) = -100t + 500$

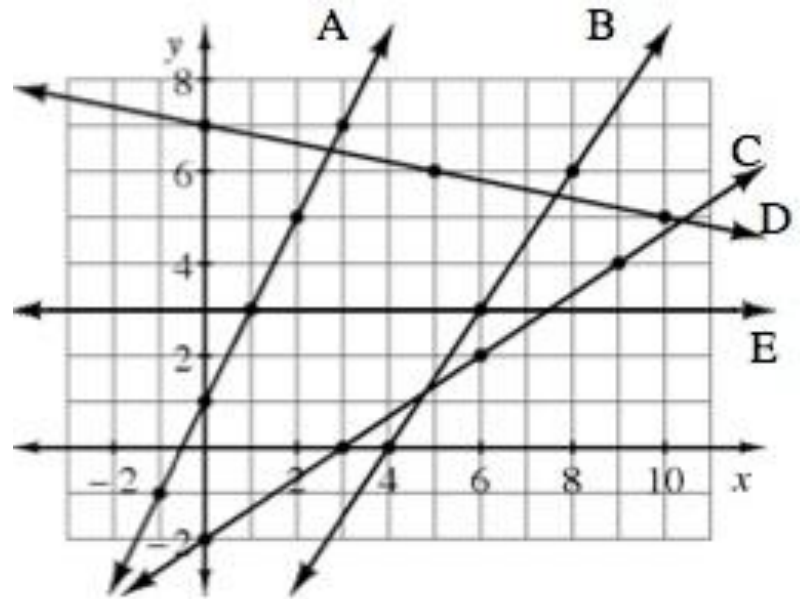
TOGETHER AS A CLASS



## YOUR TURN!!

Answer the following questions, according to the graph shown at right

- a. Which is the steepest line?  
Which is steeper, line B or line C?



- b. Draw slope triangles for lines A, B, C, D, and E using the highlighted points on each line. Label  $\Delta x$  and  $\Delta y$  for each.
- c. Match each line with its slope using the list below. Note: There are more slopes than lines.

$$m = 6$$

$$m = 2$$

$$m = -\frac{1}{5}$$

$$m = \frac{3}{2}$$

$$m = 0$$

$$m = -\frac{2}{3}$$

$$m = -5$$

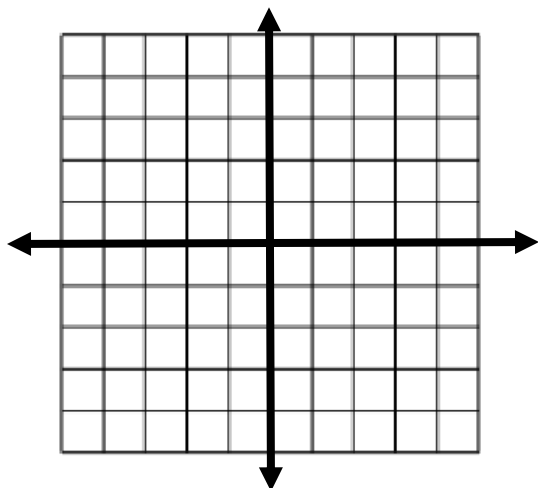
$$m = \frac{2}{3}$$

## DO YOU KNOW?

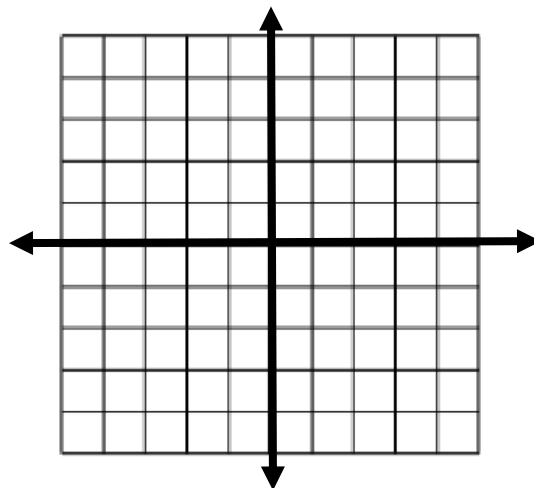
- a. Viewed left to right, in what direction would a line with slope  $-\frac{3}{5}$  point? How do you know?
- b. Viewed left to right, in what direction would a line with slope  $-\frac{5}{3}$  point? How do you know? How would it be different from the line in part with slope  $-\frac{3}{5}$ ?

**2-27.** Graph a line to match each description below.

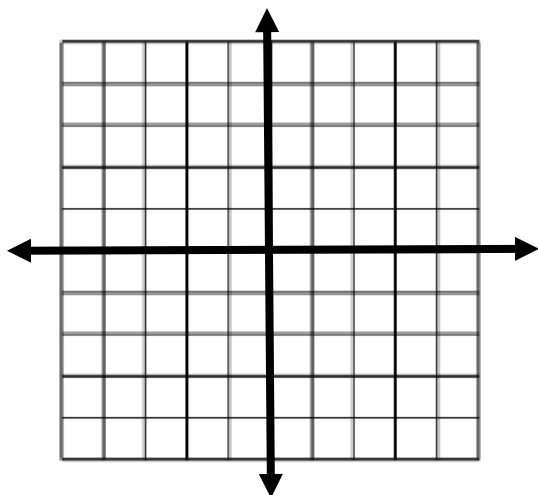
a.  $y = \frac{3}{5}x - 1$



b. A line with  $\Delta x = 4$  and  $\Delta y = -6$ .



c.  $f(x) = x - 7$



d. A line that has  $\Delta y = 3$  and  $\Delta x = 0$ .

