

Name:

ANSWERS!

Class:



Communication



Successful Partnership



Encouragement



Solving Problem Together



Collaboration

Question 01

Which function has the greatest rate of change?

Function 1

$$y = 5x - 8$$

$$y = mx + b$$

$$m = 5$$



Greatest!

Function 2

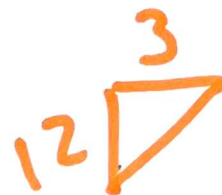
x	y
-4	28
0	36
4	44

+4 +8
+4 +8

$$\frac{\text{change in } y}{\text{change in } x} = \frac{8}{4} = 2$$

Function 3

A function rises 12 every time it moves 3 to the right.



$$\frac{\text{Rise}}{\text{Run}} = \frac{12}{3} = 4$$

Which function has the greatest rate of change?

Function 1

$$y = 8x - 2$$

$$y = mx + b$$

$$m = 8$$

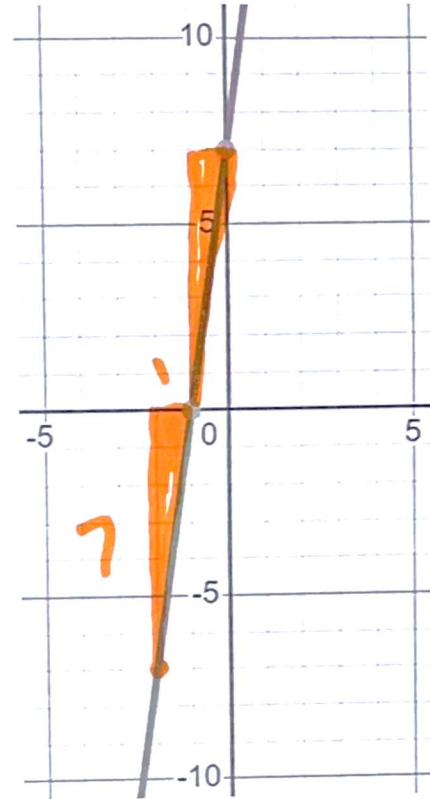
Function 2

x	y
2	6
4	26
6	46

+2 +20
+2 +20

$$\frac{\text{change in } y}{\text{change in } x} = \frac{20}{2} = 10$$

Function 3



$$\frac{\text{Rise}}{\text{Run}} = \frac{7}{1} = 7$$

Greatest!