

Name:

ANSWERS!

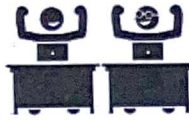
Class:



Communication



Successful Partnership



Encouragement



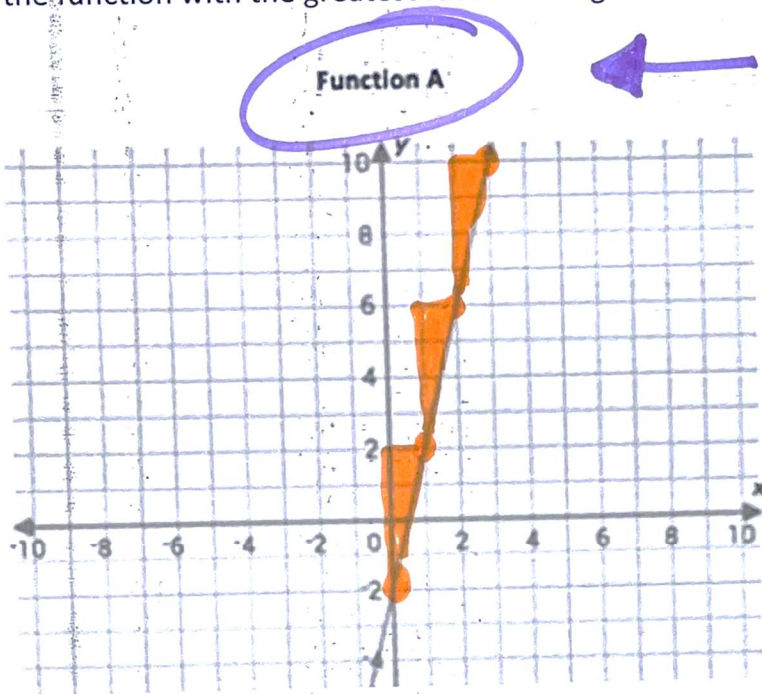
Solving Problem Together



Collaboration

Question 01

Select the function with the greatest rate of change.



← Greatest!

$$\frac{\text{Rise}}{\text{Run}} = \frac{4}{1} = 4$$

$$\frac{\text{Change in } y}{\text{Change in } x} = \frac{6}{2} = 3$$

Function B				
x	0	2	4	6
y	14	20	26	32

+2 +2 +2
+6 +6 +6

Function C

$$y = 2x + 40$$

Function D

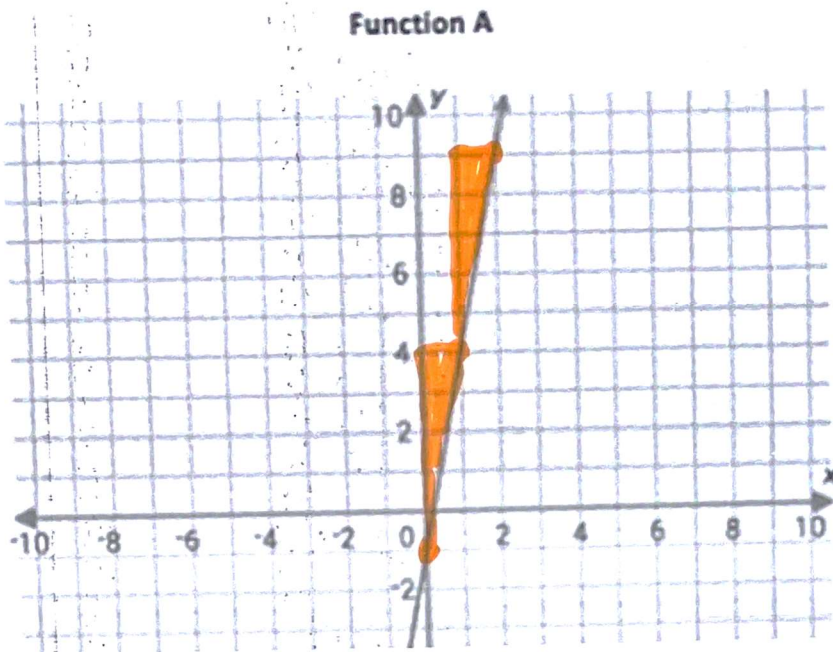
$$y = mx + b \quad m = 2$$

The line rises 6 units for every 3 units it moves to the right.

$$6 \nabla 3 \quad \frac{\text{Rise}}{\text{Run}} = \frac{6}{3} = 2$$

Question 02

Select the function with the greatest rate of change.



$$\frac{\text{Rise}}{\text{Run}} = \frac{5}{1} = 5$$

$$\frac{\text{change in } y}{\text{change in } x} = \frac{12}{3} = 4$$

Function B

x	0	3	6	9
y	18	30	42	54

+3 +3 +3
+12 +12 +12

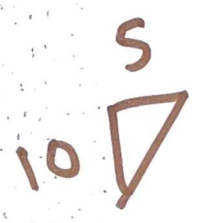
Greatest! →

Function C
 $y = 6x + 15$

$y = mx + b$ $m = 6$

Function D

The line rises 10 units for every 5 units it moves to the right.



$$\frac{\text{Rise}}{\text{Run}} = \frac{10}{5} = 2$$