

COMPARE RATES OF CHANGE

Directions: Find the rate of change for both of the linear functions in each problem. Then determine which function has the greater rate of change.

1

Function A

$y = 5x + 3$

Function B

x	y
1	6
2	9
3	12

Function A Function B
 Rate of Change: 5 Rate of Change: 3

Which function has the greater rate of change?

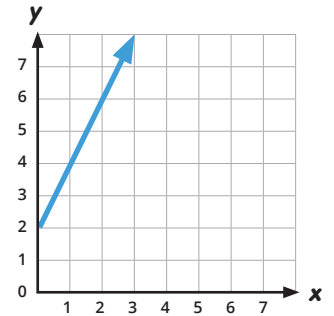
Function A

2

Function C

x	y
2	9
3	10
4	11

Function D



Function C Function D
 Rate of Change: 1 Rate of Change: 2

Which function has the greater rate of change?

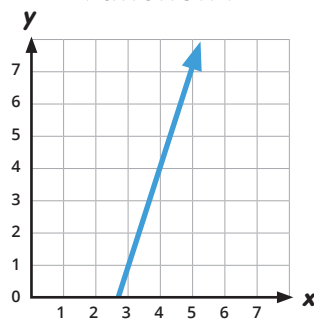
Function D

3

Function E

$y = x - 2$

Function F



Function E Function F
 Rate of Change: 1 Rate of Change: 3

Which function has the greater rate of change?

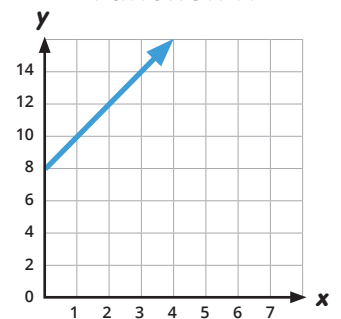
Function F

4

Function G

x	y
12	2
18	4
24	6

Function H



Function G $\frac{2}{6}$ or $\frac{1}{3}$ Function H
 Rate of Change: $\frac{2}{6}$ or $\frac{1}{3}$ Rate of Change: 2

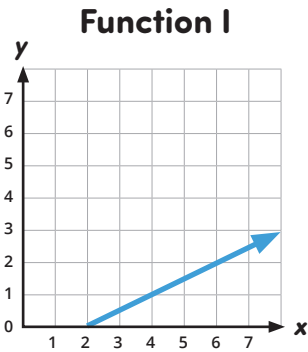
Which function has the greater rate of change?

Function H

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5



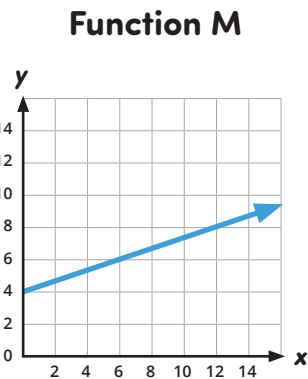
Function J
 $y = 2x + 5$

Function I $\frac{1}{2}$ Function J
Rate of Change: $\frac{1}{2}$ Rate of Change: 2

Which function has the greater rate of change?

Function J

7



Function N
 $y = \frac{1}{4}x - 4$

Function M $\frac{2}{6}$ or $\frac{1}{3}$ Function N $\frac{1}{4}$
Rate of Change: $\frac{2}{6}$ or $\frac{1}{3}$ Rate of Change: $\frac{1}{4}$

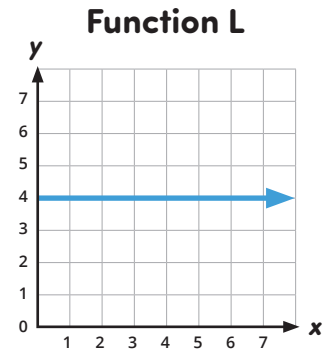
Which function has the greater rate of change?

Function M

6

Function K

x	y
3	7
6	10
9	13



Function K $\frac{1}{3}$ Function L
Rate of Change: 1 Rate of Change: 0

Which function has the greater rate of change?

Function K

8

Function O
 $y = \frac{5}{6}x - 3$

Function P

x	y
2	-5
5	-3
8	-1

Function O $\frac{5}{6}$ Function P $\frac{2}{3}$
Rate of Change: $\frac{5}{6}$ Rate of Change: $\frac{2}{3}$

Which function has the greater rate of change?

Function O