Exercises - Rate of Change and Slope
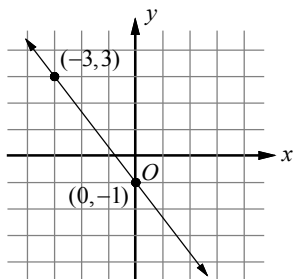
1

What is the rate of change shown in the graph of the line above?

A) $-\dfrac{4}{3}$

B) $-\dfrac{3}{4}$

C) $\dfrac{3}{4}$

D) $\dfrac{4}{3}$

2

x	−3	0	3	6
y	−1	1	3	5

What is the average rate of change for the relation shown in the table above?

A) $\dfrac{1}{3}$

B) $\dfrac{1}{2}$

C) $\dfrac{2}{3}$

D) $\dfrac{5}{6}$

3

The graph of the linear function f passes through the points $(a,1)$ and $(1,b)$ in the xy-plane. If the slope of the graph of f is 1, which of the following is true?

A) $a-b=1$

B) $a+b=1$

C) $a-b=2$

D) $a+b=2$

4

What is the slope of the line that passes through $(3,2)$ and $(-1,-8)$?

5

What is the value of r if the line that passes through $(4,3)$ and $(-5,r)$ has a slope of -1?

6

What is the value of a if the line that passes through $(a,7)$ and $(1,a)$ has a slope of $-\dfrac{5}{9}$?

7

$$-x+4y=6$$

What is the slope of the line in the equation above?
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