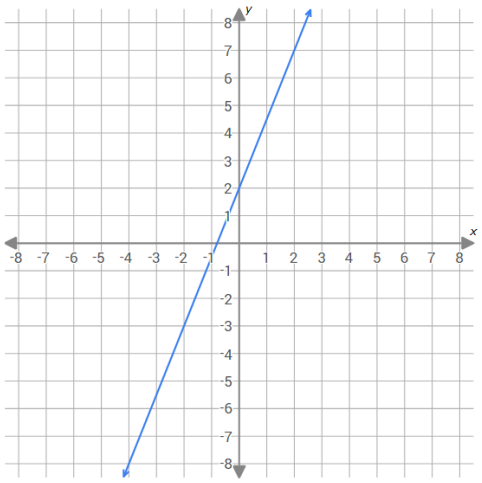
Comparing Average Rate of Change

Name_____ Period:_____ Date:_____

Directions: Use the information given to solve each problem.

1. Consider this graph of a line.



Which equation has a rate of change **greater than** the rate of change for the line shown?

A. $y = 3x - 1$

B. $y = \frac{x}{10} + 5$

C. $y = \frac{x}{4} + 6$

D. $y = -x + 6$

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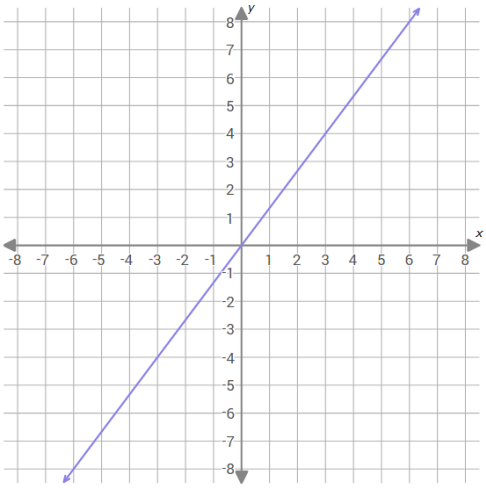
2. Consider this graph of a line.



Which equation has a rate of change **greater than** the rate of change for the line shown?

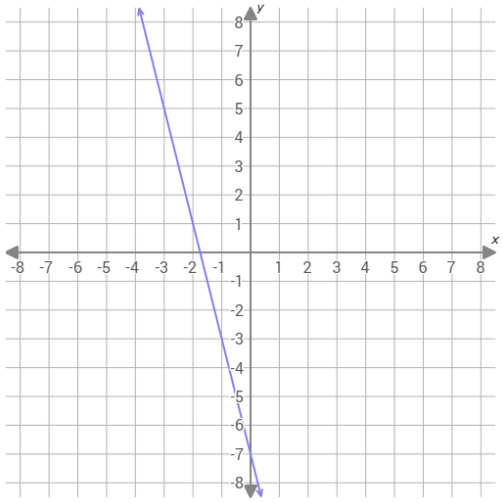
A. $y = -3x + 2$

B. $y = \quad x + 6$

C. $y = \quad 2x + 9$

D. $y = -\ x + 2$

3. Consider this graph of a line.



Which equation has a rate of change **equal to** the rate of change for the line shown?

A. $y = -4x + 8$
B. $y = -9x + 9$
C. $y = -2x + 2$
D. $y = -10\,x + 4$

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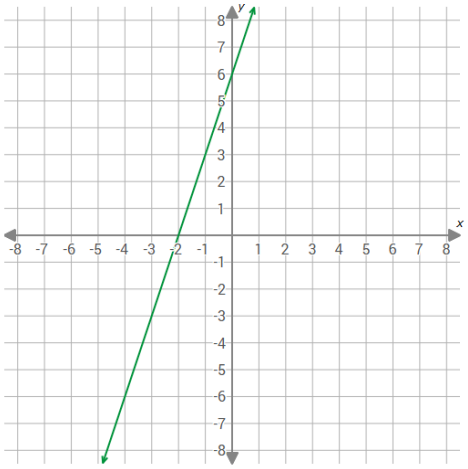
4. Consider this graph of a line.



Which equation has a rate of change **less than** the rate of change for the line shown?

A. $y = 2x + 8$
B. $y = 3x + 9$
C. $y = 4x + 2$
D. $y = 7x + 4$

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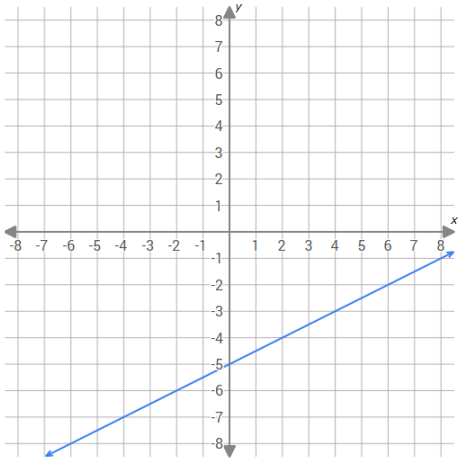
5. The graph of a line is shown in the coordinate plane below.



Which equation has a rate of change **greater than** the rate of change for the line shown?

A. $y = -3x + 6$
B. $y = \frac{x}{2} - 1$
C. $y = -\frac{x}{2} + 9$
D. $y = x + 4$

Answer Key

1. A
2. C
3. A
4. A
5. D