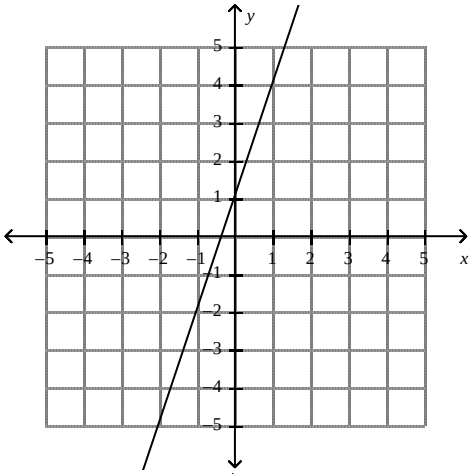
CA Grade 7 Standard 7.AF.3.3

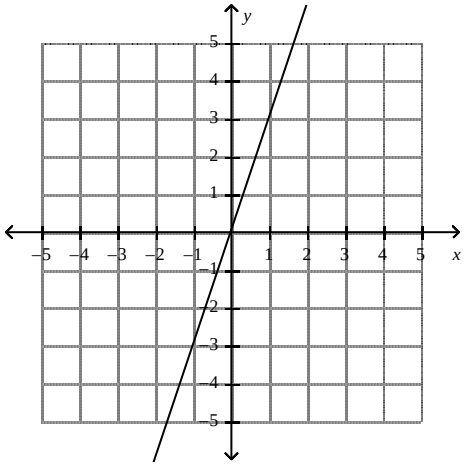
MULTIPLE CHOICE

1. Which is the graph of $y = 3x + 1$?

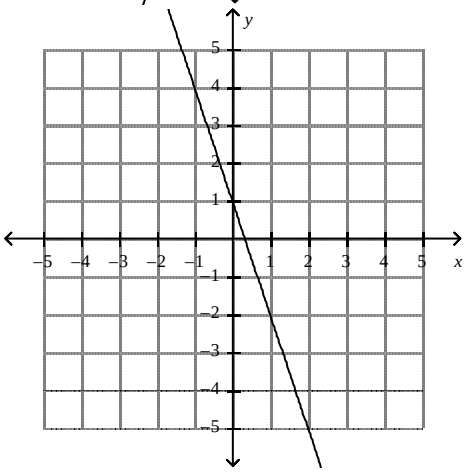
A.



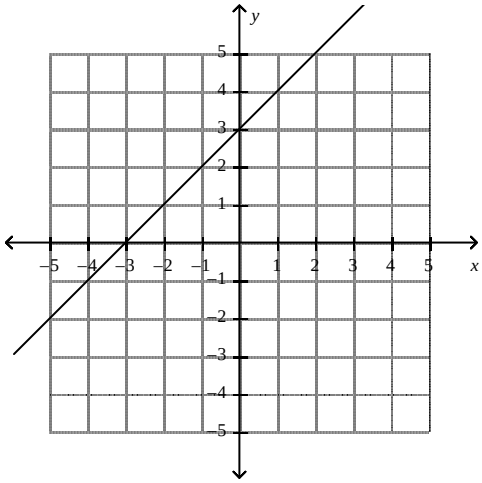
C.



B.



D.



2. What is the slope of a line passing through points (0, 0) and (4, 6)?

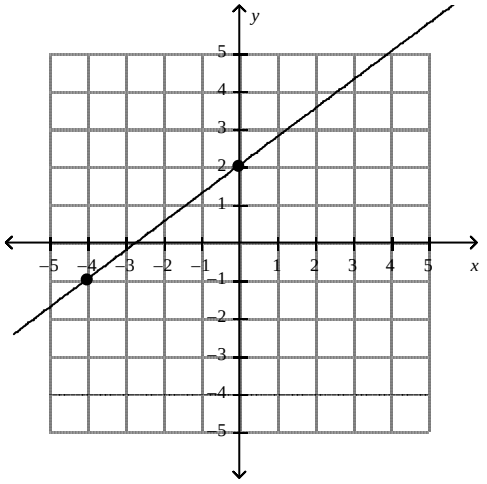
A. $\frac{2}{3}$

B. 2

C. $\frac{3}{2}$

D. 3

3.What is the slope of the line shown below?



A. $\frac{1}{3}$

B. $\frac{3}{4}$

C. 2

D. 4

4. What describes the ratio of the slope of a line?

A. $\frac{\text{rise}}{\text{run}}$

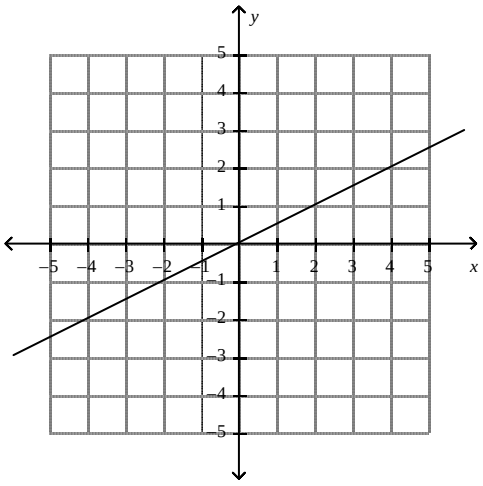
B. $\frac{\text{run}}{\text{rise}}$

C. $\frac{x}{y}$

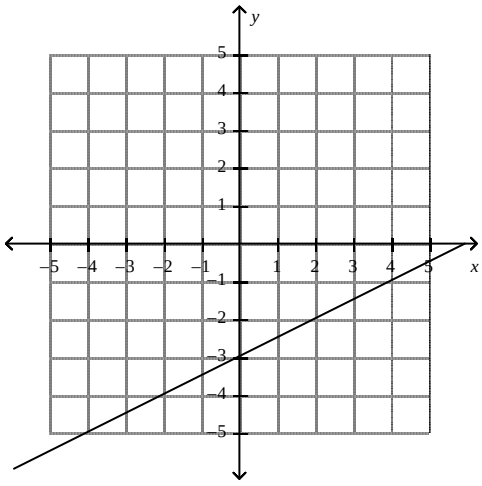
D. $\frac{\text{length}}{\text{width}}$

5. Which is the graph of $y = \frac{1}{2}x - 3$?

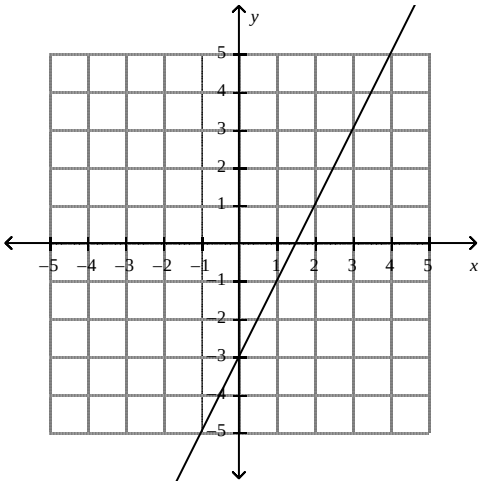
A.



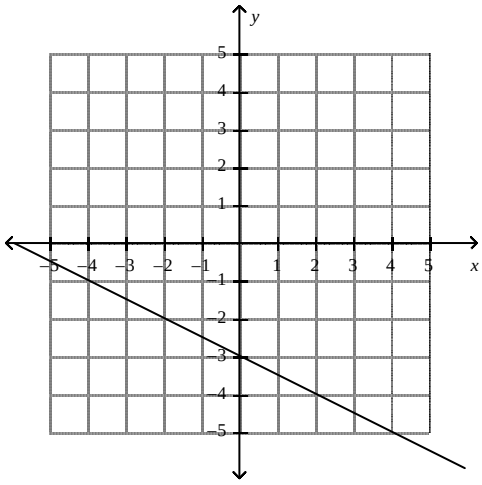
C.



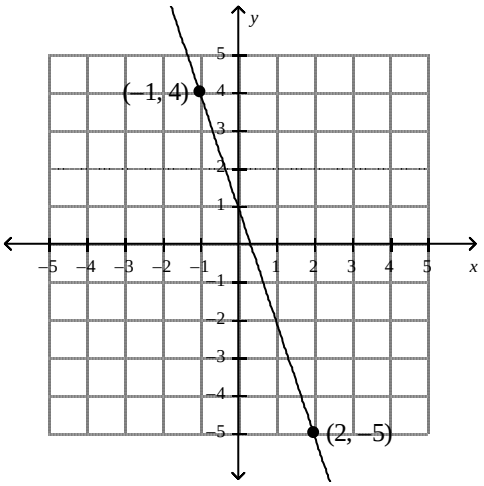
B.



D.



6. What is the slope of the line shown below?



A. –3

C. $\frac{1}{3}$

B. $-\frac{1}{3}$

D. 3

7. The slope of a line is $\frac{2}{3}$. One point on the line is (1, 1). Which of the following points is also on the line?

A. (3, 4)

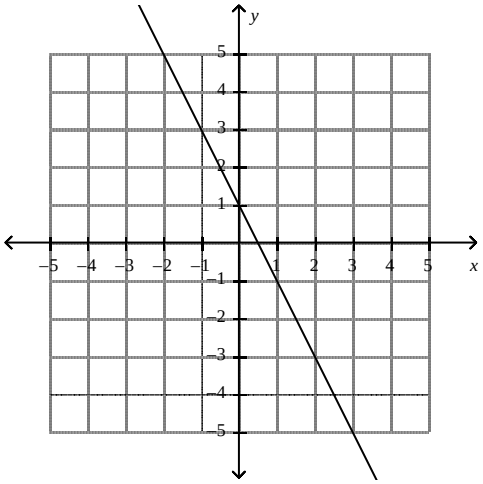
C. (4, 3)

B. (4, 2)

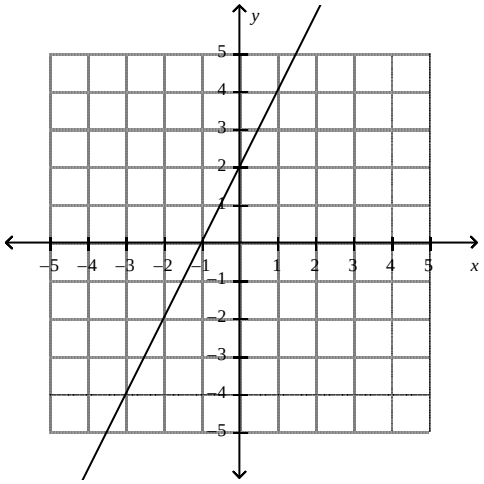
D. (–1, –2)

8. Which is the graph of $y = 2x$?

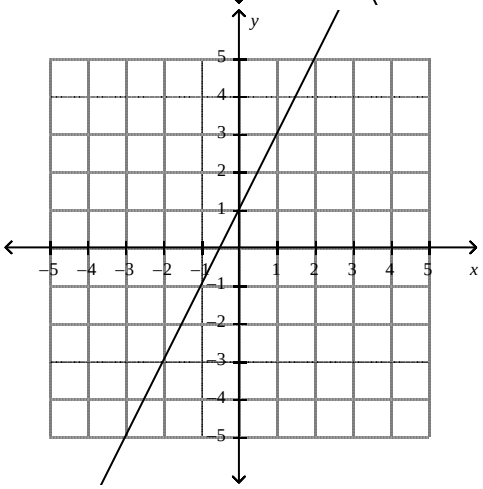
A.



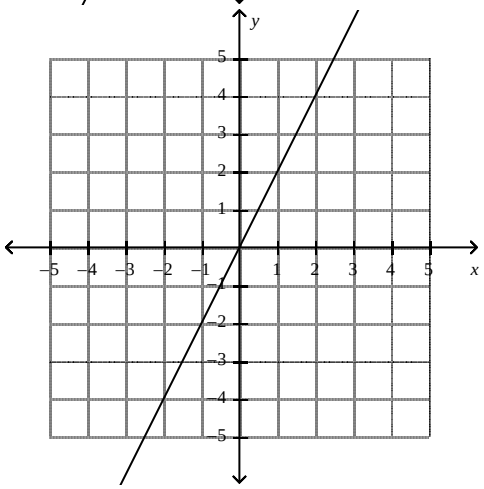
C.



B.



D.



9. What does the slope of a line represent?

A. length of the line
B. distance from the origin
C. steepness on the line
D. intersection of the line and the *y*-axis

10. Which of the following statements is true about the slope of a line?

A. The slope of a line is never a fraction.
B. The slope of a line is always positive.
C. The slope of a line is the ratio of the change in *y*-values of two points on the line to the change in *x*-values of the same two points on the line.
D. The slope of a line is the ratio of the change in *x*-values of two points on the line to the change in *y*-values of the same two points on the line.