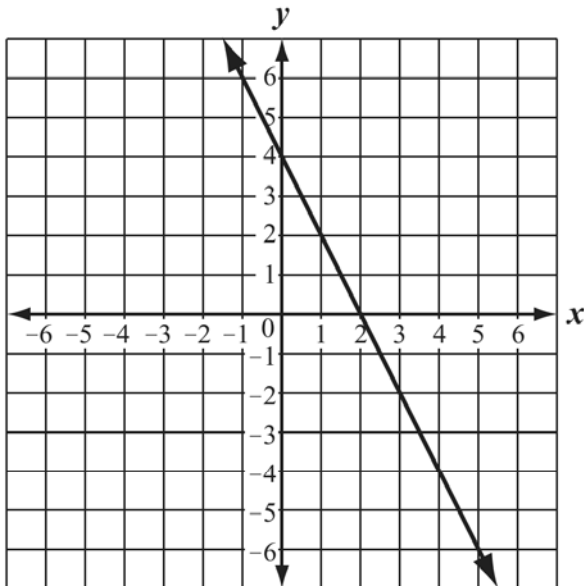


- 1 A line is shown on the coordinate grid below.

Mark your answer here: 1. (A)(B)(C)(D)



Which of the following best represents an equation of the line?

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



- 2 What is the slope of the line represented by the equation below?

Mark your answer here: 2. (A)(B)(C)(D)

$$3x + 2y = -8$$

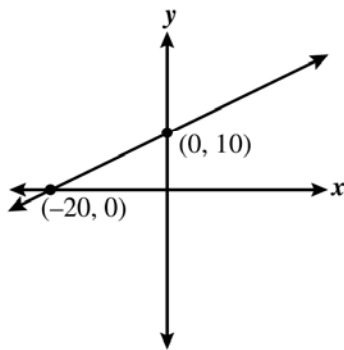
- A. -3
- B. $-\frac{3}{2}$
- C. $\frac{3}{2}$
- D. 3

- 3 Which of the following is the graph of the equation below?

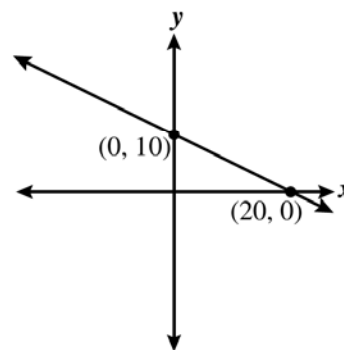
3. (A)(B)(C)(D)

$$y = -\frac{1}{2}x + 10$$

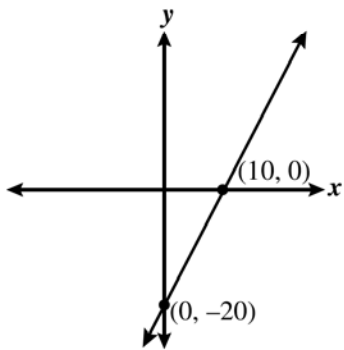
A.



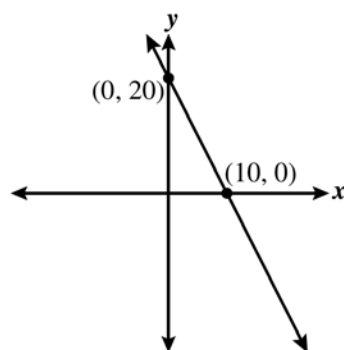
C.



B.

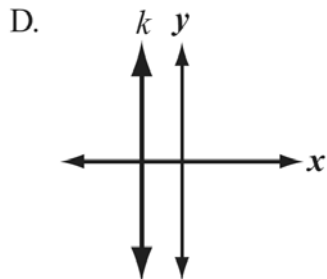
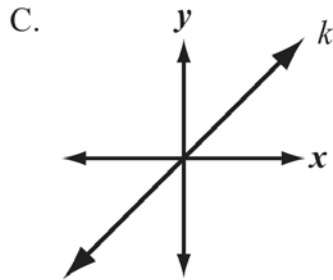
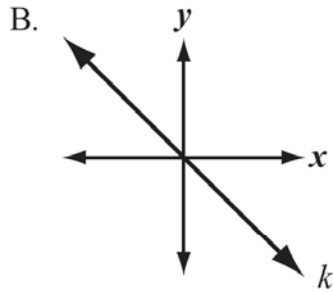
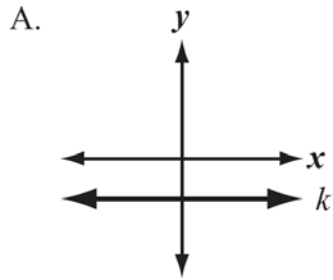


D.



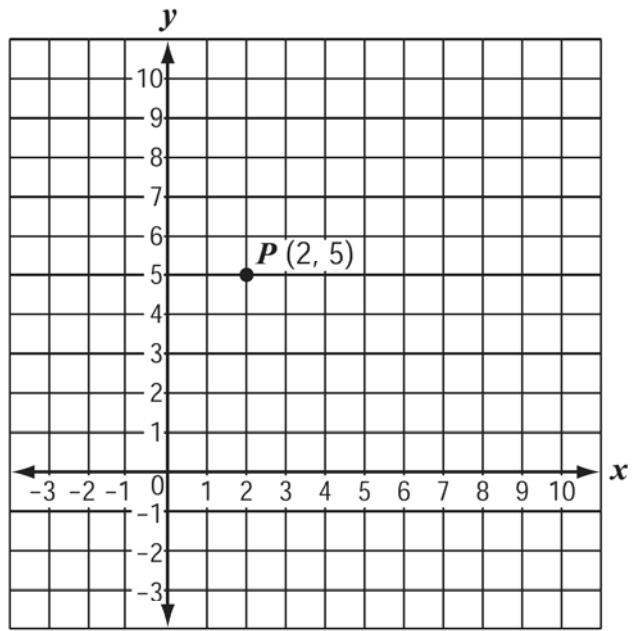
4 In which of the following graphs does line k best represent a line with a slope of 0?

Mark your answer here: 4. (A)(B)(C)(D)



Directions: For the problem below, use a separate piece of paper to write your answers. Your teacher will not count anything you write on this page.

- 5 Anthony plotted the point $P(2, 5)$ on a coordinate grid, as shown below.



Anthony then graphed line q on the same coordinate grid.

- Line q contains point P .
 - The y -intercept of line q is the point with coordinates $(0, 4)$.
- a. What is the slope of line q ? Show or explain how you got your answer.
 - b. Write an equation of line q . Show or explain how you got your equation.

Anthony also graphed line n on the same coordinate grid. Line n contains point P and is perpendicular to line q .

- c. What is the slope of line n ? Show or explain how you got your answer.
- d. Write an equation of line n . Show or explain how you got your equation.

