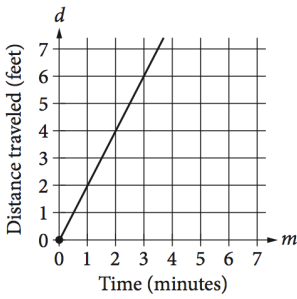


NO Calculator
XY PLANES

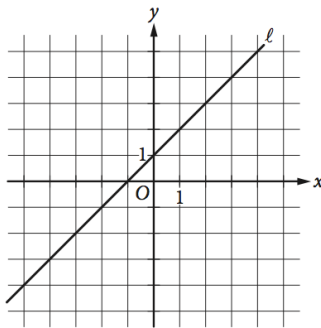
2 8



The graph above shows the distance traveled d , in feet, by a product on a conveyor belt m minutes after the product is placed on the belt. Which of the following equations correctly relates d and m ?

- A) $d = 2m$
- B) $d = \frac{1}{2}m$
- C) $d = m + 2$
- D) $d = 2m + 2$

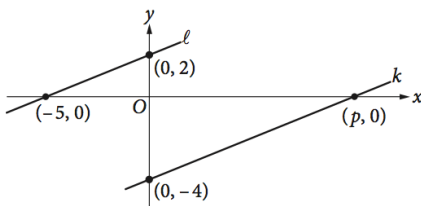
1 5



Which of the following is an equation of line ℓ in the xy -plane above?

- A) $x = 1$
- B) $y = 1$
- C) $y = x$
- D) $y = x + 1$

6 2

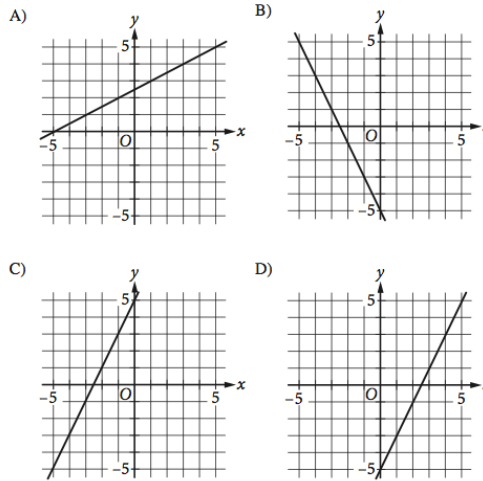


In the xy -plane above, line ℓ is parallel to line k . What is the value of p ?

- A) 4
- B) 5
- C) 8
- D) 10

5 6

Which of the following is the graph of the equation $y = 2x - 5$ in the xy -plane?



9 2

The graph of a line in the xy -plane has slope 2 and contains the point $(1, 8)$. The graph of a second line passes through the points $(1, 2)$ and $(2, 1)$. If the two lines intersect at the point (a, b) , what is the value of $a + b$?

- A) 4
- B) 3
- C) -1
- D) -4

12 1

A line in the xy -plane passes through the origin and has a slope of $\frac{1}{7}$. Which of the following points lies on the line?

- A) $(0, 7)$
- B) $(1, 7)$
- C) $(7, 7)$
- D) $(14, 2)$

19 7

The graph of a line in the xy -plane passes through the point $(1, 4)$ and crosses the x -axis at the point $(2, 0)$. The line crosses the y -axis at the point $(0, b)$. What is the value of b ?