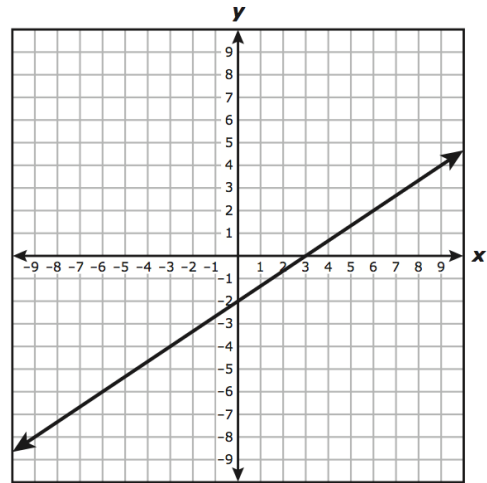


# Concept Quiz

## Graphing & Writing Slope-Intercept Form

### 80 Level

Write an equation in slope-intercept form to describe the graph. **Explain.**



Write an equation in slope-intercept form to describe the table. **Explain.**

| x  | y  |
|----|----|
| -2 | 19 |
| 2  | 11 |
| 6  | 3  |
| 10 | -5 |

### 90 Level

A line is graphed in the  $xy$ -plane. If the line has a positive slope and a negative  $y$ -intercept, which of the following points cannot lie on the line? **Explain.**

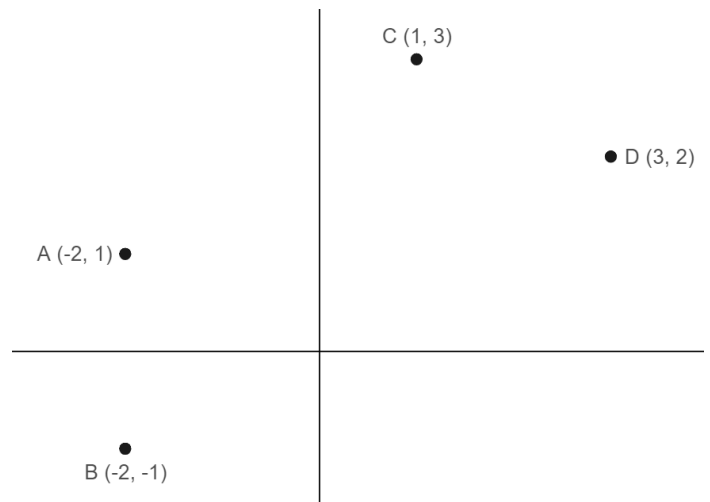
- A)  $(-3, -3)$
- B)  $(-3, 3)$
- C)  $(3, -3)$
- D)  $(3, 3)$

## 100 Level

Use any whole number from 1 to 9 to write the equation of a line in slope-intercept form that passes in between points  $A$  and  $B$  as well as points  $C$  and  $D$ .

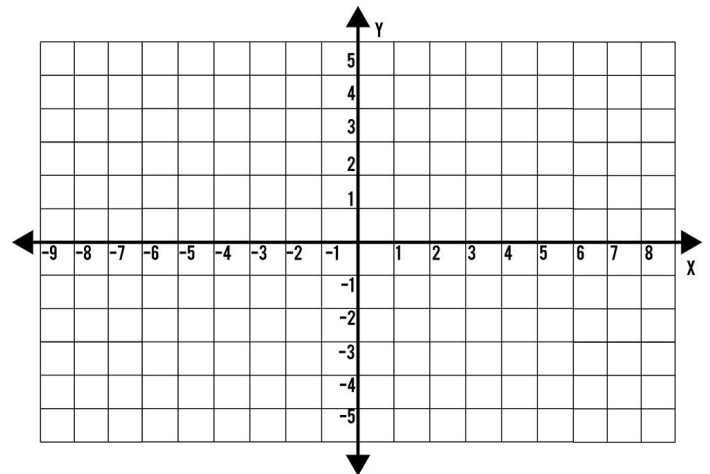
You may only use a number once. **Explain.**

$$y = \frac{\boxed{\phantom{00}}}{\boxed{\phantom{00}}}x + \boxed{\phantom{00}}$$



## 80 Level

Graph  $f(x) = -4 + \frac{3}{4}x$  and **Explain.**



### 90 Level

When the equation  $y = 5x + p$ , where  $p$  is a constant, is graphed in the  $xy$ -plane, the line passes through the point  $(-2, 1)$ . What is the value of  $p$ ? **Explain.**

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### 100 Level

The graph of the linear function  $f$  is shown in the  $xy$ -plane. The slope of the graph of the linear function  $g$  is 6 times the slope of the graph of  $f$ . If the graph of  $g$  passes through the point  $(-8, -35)$ , and  $g(a) = 19$ , then what value of  $x$  satisfies  $f(x) = a$ ?

**Explain.**

