

Lesson 14: Making More New, True Equations

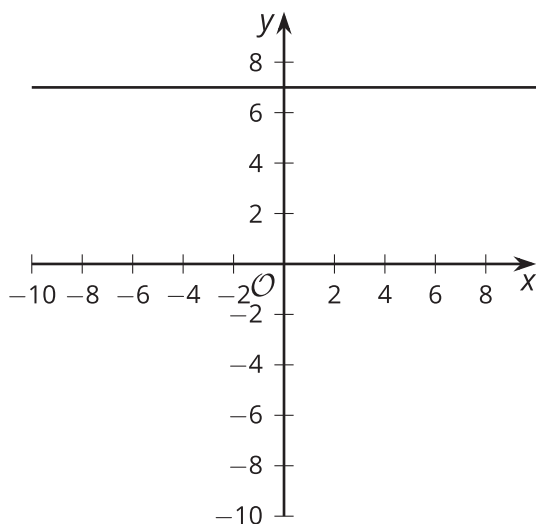
- Let's practice combining like terms and working with horizontal and vertical lines.

14.1: Criss Cross'll Make You Jump

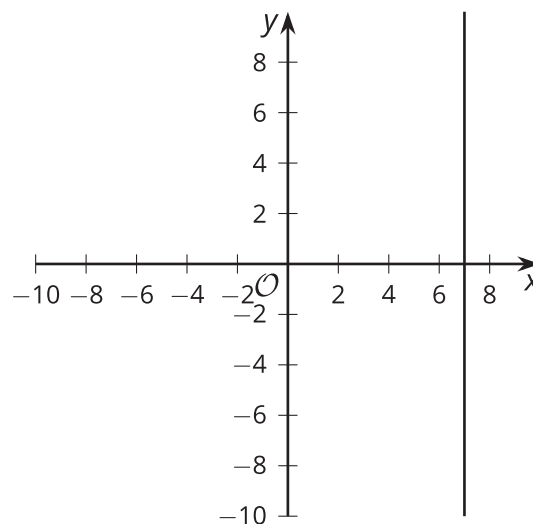
Match each equation with its graph.

$$x = 7 \quad y = 7 \quad x + y = 7$$

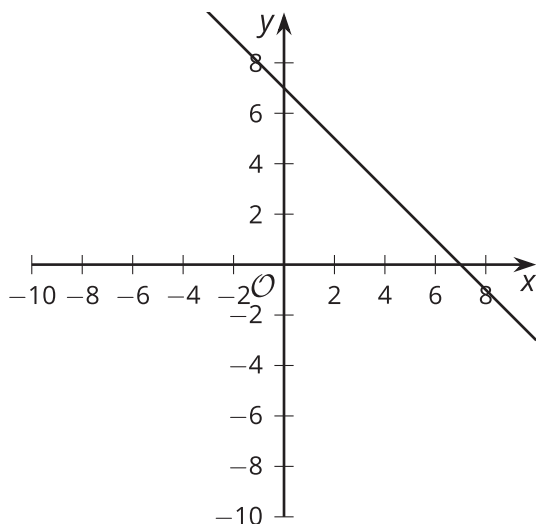
A



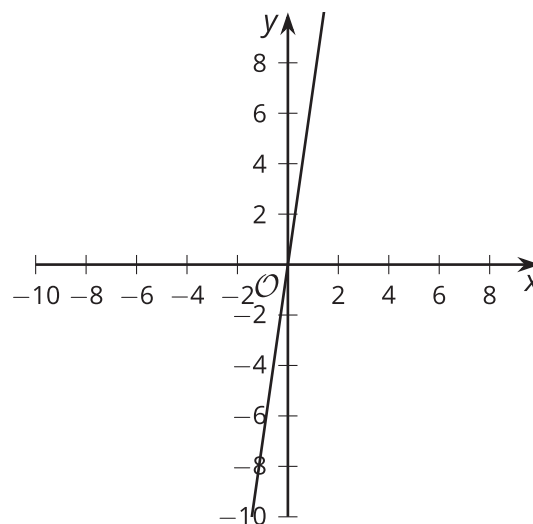
B



C



D



14.2: They're Like Terms, Man

Rewrite each expression by combining like terms.

1. $11s - 2s$

2. $5t + 3z - 2t$

3. $23s - (13t + 7t)$

4. $7t + 18r + (2r - 5t)$

5. $-4x + 6r - (7x + 2r)$

6. $3(c - 5) + 2c$

7. $8x - 3y + (3y - 5x)$

8. $5x + 4y - (5x + 7y)$

9. $9x - 2y - 3(3x + y)$

10. $6x + 12y + 2(3x - 6y)$

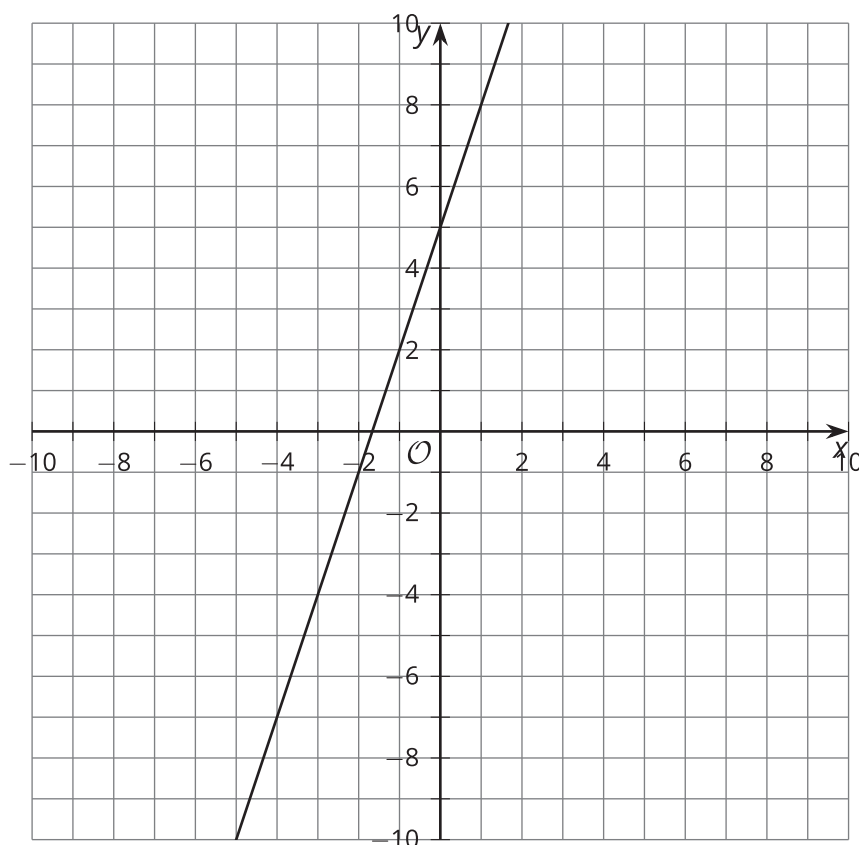
14.3: Finding More Lines

For each system of equations:

- Solve the system of equations by graphing. Write the solution as an ordered pair.
- Write an equation that would be represented by a vertical or horizontal line that also passes through the solution of the system of equations.
- Graph your new equation along with the system.

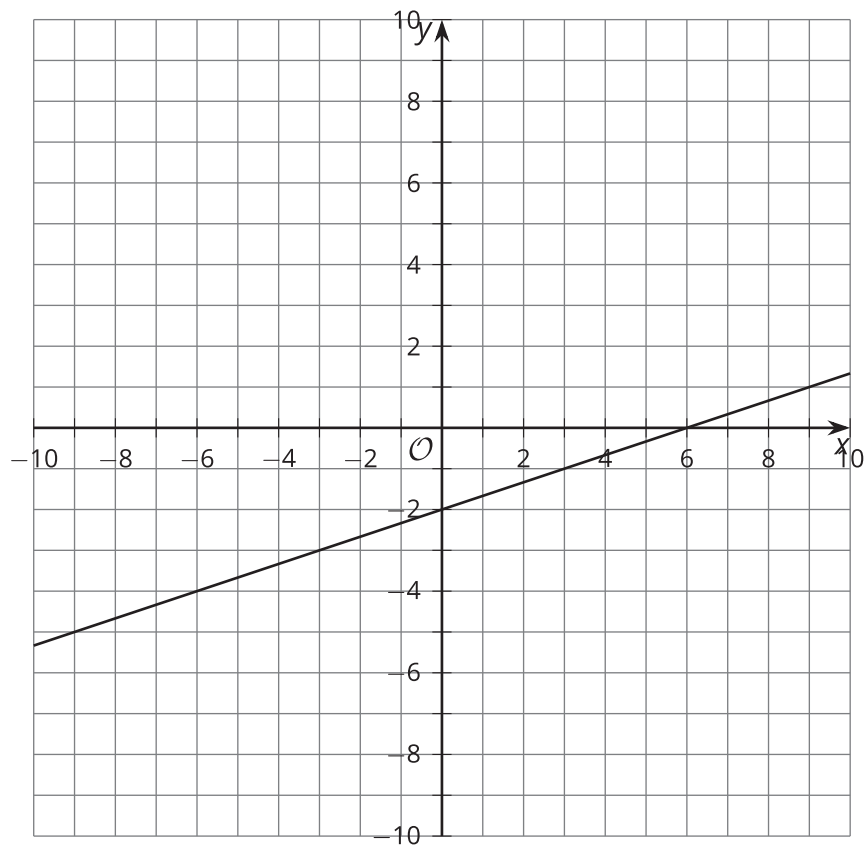
1.
$$\begin{cases} y = 3x + 5 \\ y = -x + 1 \end{cases}$$

The line representing $y = 3x + 5$ is shown



$$2. \begin{cases} y = \frac{1}{3}x - 2 \\ y = x - 6 \end{cases}$$

The line representing $y = \frac{1}{3}x - 2$ is shown



3.
$$\begin{cases} 2x + 3y = 10 \\ x + y = 3 \end{cases}$$

The line representing $2x + 3y = 10$ is shown

