

1. Solve for  $x$ .

$$-48 - x = -39$$

2. Solve for  $x$ .

$$-43 = \frac{x}{5} - 47$$

3. Solve for  $x$ :

$$6x + 6 = 7x + 2$$

4. Solve for  $x$ :

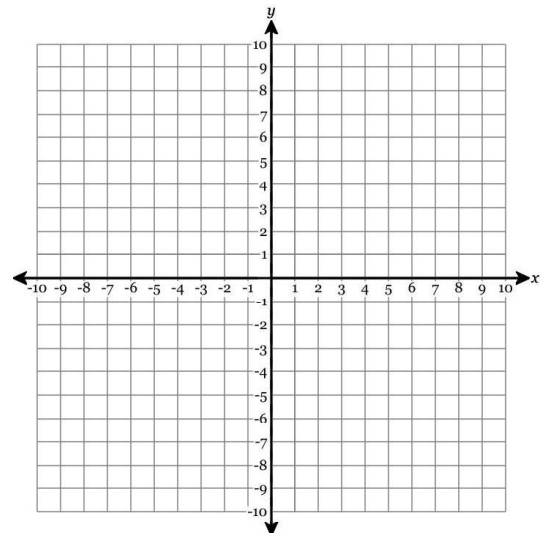
$$-x + 6 = 4x + 21$$

5. A group of friends wants to go to the amusement park. They have \$227 to spend on parking and admission. Parking is \$8, and tickets cost \$18.25 per person, including tax. Write and solve an equation which can be used to determine  $p$ , the number of people who can go to the amusement park.

6. Jordan bought snacks for his team's practice. He bought a bag of chips for \$3.30 and a 18-pack of juice bottles. The total cost before tax was \$36.60. Write and solve an equation which can be used to determine  $x$ , how much each bottle of juice cost.

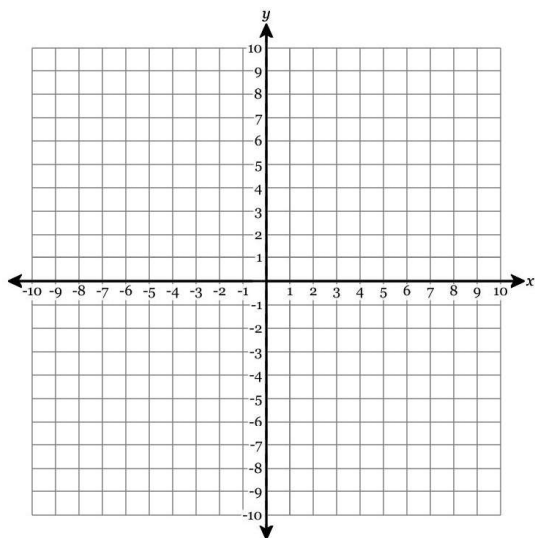
7. Graph the following features:

- Slope =  $\frac{3}{2}$
- Y-intercept =  $-3$



8. Graph the following features:

- Slope =  $-2$
- Y-intercept =  $5$



9. Find the y-intercept of the line represented by the equation below.

$$y = -x - 2$$

10. Find the slope of the line represented by the equation below.

$$y = 2 - x$$

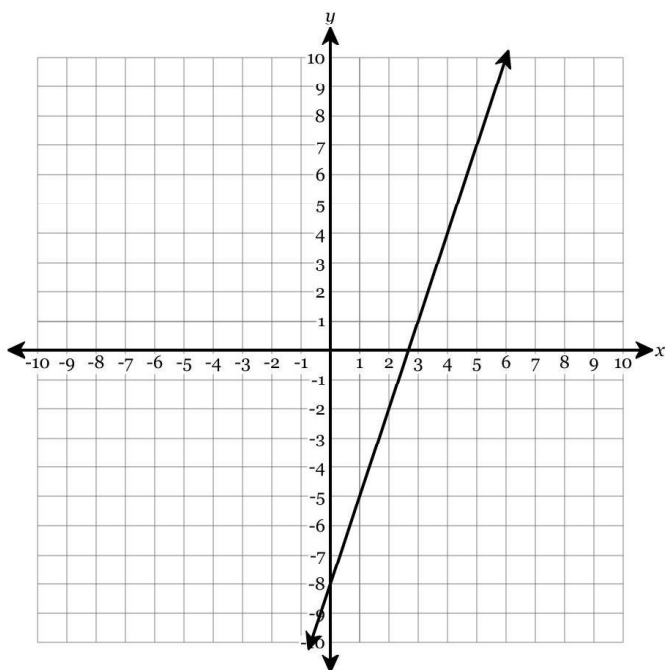
11. Find the y-intercept of the line represented by the equation below.

$$2x + y = -4$$

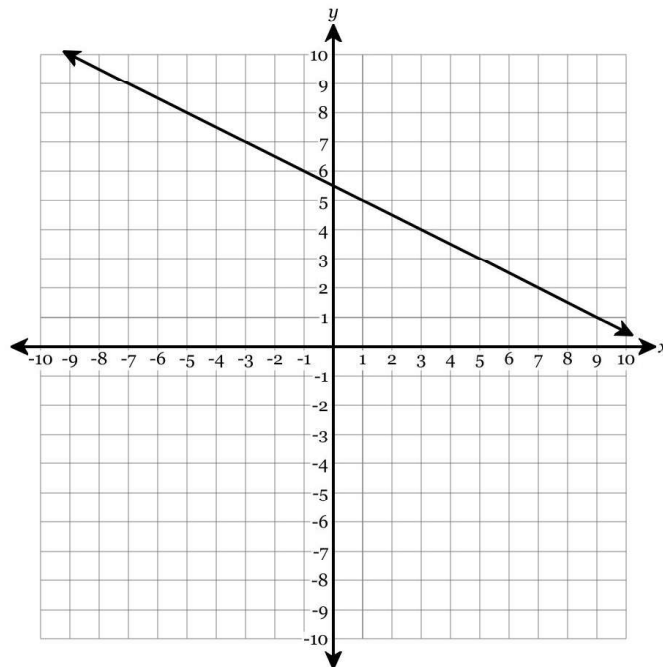
12. Find the slope of the line represented by the equation below.

$$-25 = -2x + 5y$$

13. Draw a line representing the “rise” and a line representing the “run” of the line. State the slope of the line in simplest form.



14. Draw a line representing the “rise” and a line representing the “run” of the line. State the slope of the line in simplest form.



15. What is the slope of the line that passes through the points  $(-8, -1)$  and  $(-5, 0)$ ? Write your answer in *simplest form*.

16. What is the slope of the line that passes through the points  $(8, 1)$  and  $(33, 6)$ ? Write your answer in *simplest form*.

17. Put the following equation of a line into slope-intercept form, simplifying all fractions.

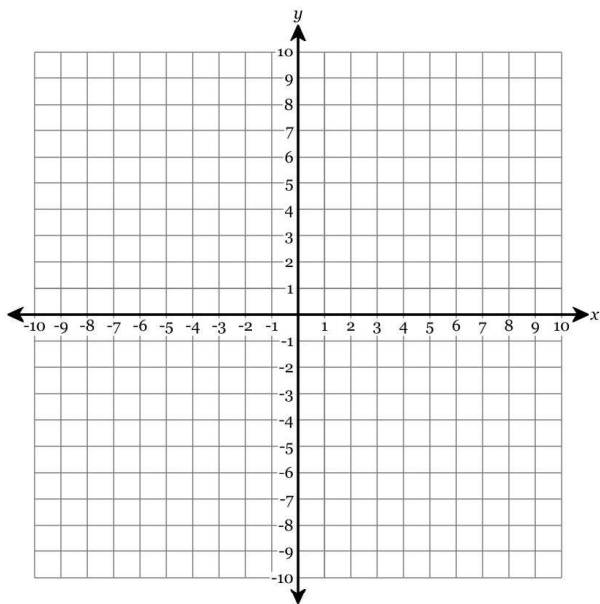
$$9y - 15x = 63$$

18. Put the following equation of a line into slope-intercept form, simplifying all fractions.

$$15y - 18x = -60$$

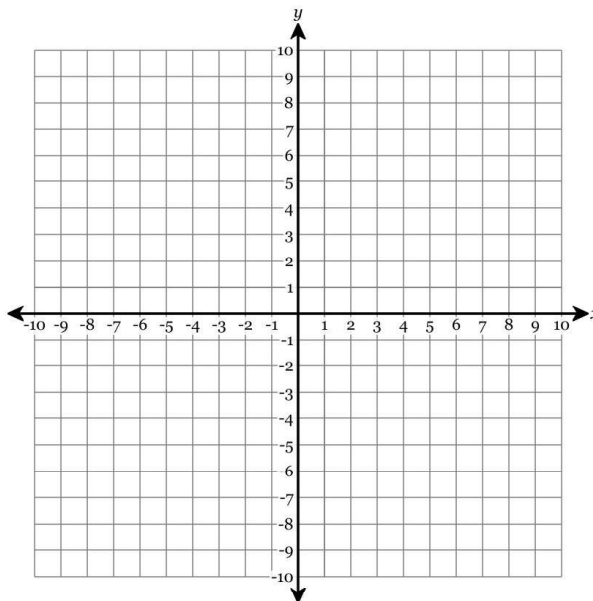
19. Solve the following system of equations graphically on the set of axes below and state the coordinates of the solution.

$$y = x - 8 \quad y = -\frac{5}{2}x - 1$$



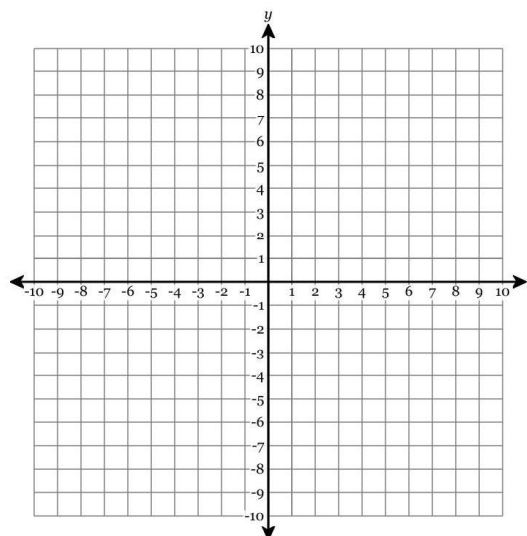
20. Solve the following system of equations graphically on the set of axes below and state the coordinates of the solution.

$$y = \frac{1}{2}x + 5 \quad y = -\frac{5}{2}x - 7$$



21. Solve the following system of equations graphically on the set of axes below and state the coordinates of the solution.

$$y = x + 3 \quad 3x + 2y = -4$$



22. Solve the following system of equations graphically on the set of axes below and state the coordinates of the solution.

$$y = x + 1 \quad x + 5y = 35$$

