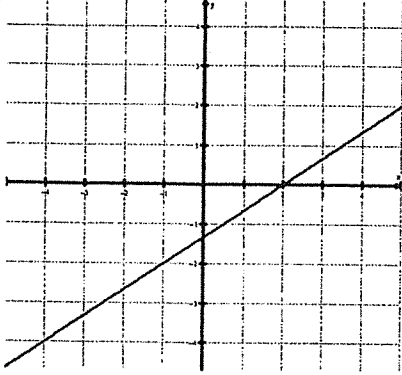


1. Write the slope-intercept form of the equation of the line. Do not guess the y-intercept!



2. Write the equation of the line with slope undefined through the point $(-4, 2)$.

3. Write the slope-intercept form of the equation of the line through $(-4, 2)$, parallel to $2x - y = 1$

4. Find the x- and y-intercepts of $-5x + 2y = 11$ as points.

x-intercept:
y-intercept:

5. Is the point $(-4, 2)$ the solution to the system of equations?

$$\begin{aligned}x - y &= -6 \\ y &= 2x + 6\end{aligned}$$

Do not solve—just check the answer!

6. Fill in the blank:

The solution to a system of equations is the point that solves _____.

7. Suppose Paintball Jungle charges \$40 plus an additional \$5 per gun they rent out. Paintwar charges \$50 plus an addition \$4 per gun they rent out.

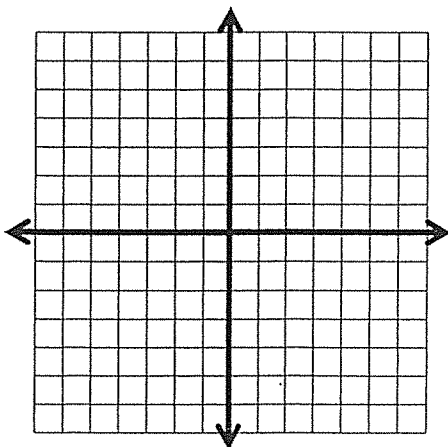
a) Write two equations from the problem described above. Then define your variables.

b) Use substitution to solve for the number of guns you would have to rent out for the price to be the same. Then tell how much it would cost you if they were the same.

8. Solve the system of equations by graphing.

$$y = -x + 2$$

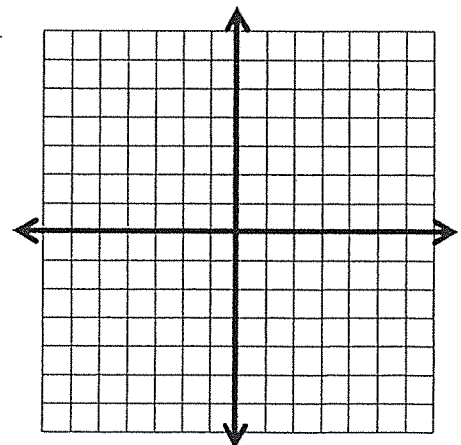
$$2x + y = 7$$



9. Solve the system by graphing.

$$-x - y = 2$$

$$y = -\frac{6}{5}x - 1$$



10. Write two equations for the word problem below, then solve the problem below using substitution.

The Giants football team scored a total of five times. They have 27 points. If they scored using only touchdowns (7 points) and field goals (3 points), how many of each type did they make?

11. Solve the systems of equations by substitution.

a.
$$\begin{aligned} 3x - y &= -6 \\ y &= 2x + 4 \end{aligned}$$

b.
$$\begin{aligned} 3x + 9y &= 36 \\ x - 8y &= -10 \end{aligned}$$

12. Solve the systems by elimination.

a.
$$\begin{aligned} x + 2y &= 1 \\ 3x + y &= 8 \end{aligned}$$

b.
$$\begin{aligned} 2x + 3y &= -4 \\ 3x - 2y &= 7 \end{aligned}$$