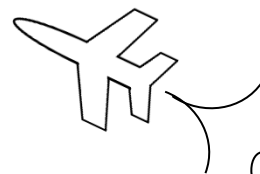


Math on the Fly!



NAME: _____ DATE: _____

Systems of Equations

Solve each system below using the substitution method.

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

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

3.
$$\begin{aligned} y &= 2x - 1 \\ 3x - y &= 0 \end{aligned}$$

4.
$$\begin{aligned} x &= -3y + 1 \\ -2x + 3y &= -11 \end{aligned}$$

5.
$$\begin{aligned} y &= 4x + 2 \\ y &= -5x - 7 \end{aligned}$$

6.
$$\begin{aligned} y &= x - 3 \\ x &= 4y + 12 \end{aligned}$$

Solve each system below using the elimination method.

7.
$$\begin{aligned} x - 5y &= 7 \\ 2x + 5y &= -1 \end{aligned}$$

8.
$$\begin{aligned} -8x + 3y &= 4 \\ 6x - 2y &= -2 \end{aligned}$$

9.
$$\begin{aligned} -6x - y &= 8 \\ 3x + 4y &= 10 \end{aligned}$$

10.
$$\begin{aligned} 7x - 2y &= -20 \\ -7x - 3y &= 5 \end{aligned}$$

11.
$$\begin{aligned} 5x + 4y &= 8 \\ 4x + 6y &= 12 \end{aligned}$$

12.
$$\begin{aligned} x + y &= -5 \\ 2x - 6y &= 6 \end{aligned}$$

SOLUTIONS

1. $(1,2)$

2. $(-1,3)$

3. $(-1,-3)$

4. $(4,-1)$

5. $(-1,-2)$

6. $(0,-3)$

7. $(2,-1)$

8. $(1,4)$

9. $(-2,4)$

10. $(-2,3)$

11. $(0,2)$

12. $(-3,-2)$