

SYSTEMS OF EQUATIONS

Solve each system and state the solution.

1) $6x + 6y = 12$
 $-12x - 4y = -16$

2) $x + y = -4$
 $4x + 2y = -6$

3) $9x - 4y = 18$
 $-3x - 2y = -6$

4) $x - 6y = 9$
 $-2x + 12y = -18$

5) $-9x + 2y = 4$
 $3x + 5y = 10$

6) $5x + 12y = -15$
 $-2x + 6y = 6$

7) $5x - 6y = -13$
 $x - 3y = -8$

8) $6x - 5y = 6$
 $3x - 6y = 3$

9) $5x - 3y = 8$
 $-10x + 2y = 8$

10) $-6x - y = -18$
 $-5x - 6y = 16$

$$\begin{aligned} 11) \quad & 6y = -10 - 8x \\ & 4x = -2y - 2 \end{aligned}$$

$$\begin{aligned} 12) \quad & -6x = 8y + 8 \\ & -4y = x + 4 \end{aligned}$$

$$\begin{aligned} 13) \quad & 2x = -12 + 4y \\ & -5y = -15 - 4x \end{aligned}$$

$$\begin{aligned} 14) \quad & 16 + 8x - 4y = 0 \\ & 4x + 6 = y \end{aligned}$$

$$\begin{aligned} 15) \quad & 5y = -16 + 3x \\ & 0 = -4x - 32 - 20y \end{aligned}$$

$$\begin{aligned} 16) \quad & -4x - 8y = 8 \\ & 2x - 4y = 12 \end{aligned}$$

$$\begin{aligned} 17) \quad & 5x + z = 9 \\ & -5x - 5y - z = 16 \\ & -5x + 3y - 3z = -12 \end{aligned}$$

$$\begin{aligned} 18) \quad & 3x - 4z = 18 \\ & 6x - 4y + 3z = -22 \\ & -x - 2y - z = 12 \end{aligned}$$

$$\begin{aligned} 19) \quad & -5x + 3y + 5z = -3 \\ & 5x + 4y - 2z = -10 \\ & 2y - 3z = 4 \end{aligned}$$

$$\begin{aligned} 20) \quad & 6y = 18 \\ & x - y + z = -6 \\ & 4x + 3y + 4z = 2 \end{aligned}$$