

Solving Systems Practice

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Solve each system by substitution.

1) $y = -3x$
 $y = 6x - 18$

2) $y = 4x + 14$
 $y = -7x - 30$

3) $y = -3x + 20$
 $y = 3x - 10$

4) $y = 2x - 2$
 $7x - 6y = 22$

5) $y = -6x + 15$
 $-6x - 2y = -24$

6) $6x + 9y = 24$
 $y = -3x + 19$

7) $-4x + 5y = -18$
 $x - 10y = 22$

8) $x + 2y = -9$
 $7x - 5y = 13$

9) $4x - 8y = 12$
 $x + 2y = 11$

10) $2x - 6y = 18$
 $10x + y = 28$

11) $-10x - 6y = 14$
 $x - 7y = 29$

12) $8x + 10y = -6$
 $5x + y = 12$

Solve each system by elimination.

$$\begin{aligned} 13) \quad & 7x - 2y = -10 \\ & 9x + 2y = 10 \end{aligned}$$

$$\begin{aligned} 14) \quad & -7x + 5y = -25 \\ & 3x - 5y = 25 \end{aligned}$$

$$\begin{aligned} 15) \quad & -9x - 4y = 4 \\ & 9x - 10y = 10 \end{aligned}$$

$$\begin{aligned} 16) \quad & 3x + y = 21 \\ & -2x + y = 1 \end{aligned}$$

$$\begin{aligned} 17) \quad & 7x - 8y = 15 \\ & -9x - 8y = -1 \end{aligned}$$

$$\begin{aligned} 18) \quad & -2x - 7y = -11 \\ & -x - 7y = -2 \end{aligned}$$

$$\begin{aligned} 19) \quad & x - y = -6 \\ & -4x - 3y = -4 \end{aligned}$$

$$\begin{aligned} 20) \quad & 2x + 8y = -6 \\ & 7x + 16y = 15 \end{aligned}$$

$$\begin{aligned} 21) \quad & -9x - 12y = -6 \\ & 6x - 2y = 14 \end{aligned}$$

$$\begin{aligned} 22) \quad & -6x + 5y = 10 \\ & 10x + 7y = 14 \end{aligned}$$

$$\begin{aligned} 23) \quad & 4x + 5y = -23 \\ & 5x - 2y = -4 \end{aligned}$$

$$\begin{aligned} 24) \quad & -2x + 7y = -20 \\ & 5x - 5y = 0 \end{aligned}$$