

Solving Systems by Elimination

Solve each system by elimination.

1) $-5x - 3y = 22$
 $5x + 3y = -27$

2) $-7x + 2y = 17$
 $8x - 2y = -18$

3) $-x + 3y = 16$
 $4x - 3y = -1$

4) $-x + 8y = -5$
 $-x + 5y = -2$

5) $-9x - 8y = 19$
 $3x - 8y = -17$

6) $x - 4y = -20$
 $x - 4y = -20$

7) $3x - 8y = -24$
 $x + 16y = -8$

8) $-10x + 9y = 1$
 $-2x - 18y = 20$

9) $16x - 7y = 9$
 $-8x + 6y = -2$

10) $-16x - 8y = 24$
 $-8x - 6y = 14$

$$\begin{aligned} 11) \quad & 10x + 6y = 30 \\ & 7x + 12y = -18 \end{aligned}$$

$$\begin{aligned} 12) \quad & x + 5y = -24 \\ & -10x - 8y = -12 \end{aligned}$$

$$\begin{aligned} 13) \quad & -3x - 6y = 21 \\ & 12x - 5y = 3 \end{aligned}$$

$$\begin{aligned} 14) \quad & 3x + 3y = 0 \\ & 9x + 9y = -9 \end{aligned}$$

$$\begin{aligned} 15) \quad & 4x - 12y = -28 \\ & 2x + 4y = 26 \end{aligned}$$

$$\begin{aligned} 16) \quad & -3x + y = 12 \\ & -6x - 4y = 6 \end{aligned}$$

$$\begin{aligned} 17) \quad & 6x + 2y = -20 \\ & 3x + y = -10 \end{aligned}$$

$$\begin{aligned} 18) \quad & -4x - 4y = 8 \\ & x + 2y = -8 \end{aligned}$$

$$\begin{aligned} 19) \quad & 3x + y = -3 \\ & 12x - 5y = 15 \end{aligned}$$

$$\begin{aligned} 20) \quad & 8x - y = 30 \\ & -16x - 10y = 12 \end{aligned}$$

$$\begin{aligned} 21) \quad & -3x - 20y = -12 \\ & 4x + 10y = 16 \end{aligned}$$

$$\begin{aligned} 22) \quad & 7x - y = -9 \\ & -14x + 8y = -12 \end{aligned}$$

Answers to Solving Systems by Elimination (ID: 1)

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|----------------|----------------------------------|-----------------|----------------|
| 1) No solution | 2) $(-1, 5)$ | 3) $(5, 7)$ | 4) $(-3, -1)$ |
| 5) $(-3, 1)$ | 6) Infinite number of solutions | 7) $(-8, 0)$ | |
| 8) $(-1, -1)$ | 9) $(1, 1)$ | 10) $(-1, -1)$ | 11) $(6, -5)$ |
| 12) $(6, -6)$ | 13) $(-1, -3)$ | 14) No solution | 15) $(5, 4)$ |
| 16) $(-3, 3)$ | 17) Infinite number of solutions | 18) $(4, -6)$ | |
| 19) $(0, -3)$ | 20) $(3, -6)$ | 21) $(4, 0)$ | 22) $(-2, -5)$ |