

Solving Systems by Elimination

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Solve each system by elimination.

1) $10x - 7y = -14$
 $-20x + 2y = 4$

2) $8x + 12y = 0$
 $-4x - 4y = -8$

3) $-7x - 9y = -7$
 $10x - 18y = 10$

4) $5x + 15y = -15$
 $-x - 5y = 9$

5) $-3x + 7y = -24$
 $-4x - 5y = 11$

6) $-9x - 3y = -3$
 $-5x + 5y = 25$

$$\begin{aligned} 7) \quad & -5x + 5y = 25 \\ & -4x - 9y = -6 \end{aligned}$$

$$\begin{aligned} 8) \quad & -5x - 5y = -30 \\ & 2x + 7y = -8 \end{aligned}$$

$$\begin{aligned} 9) \quad & -9x + 7y = -11 \\ & 8x - 3y = -16 \end{aligned}$$

$$\begin{aligned} 10) \quad & -8x - 4y = 4 \\ & 5x + 7y = -16 \end{aligned}$$

$$\begin{aligned} 11) \quad & -3x + 2y = 9 \\ & -4x - 9y = -23 \end{aligned}$$

$$\begin{aligned} 12) \quad & 8x + 5y = 0 \\ & 6x + 2y = 0 \end{aligned}$$

$$\begin{aligned} 13) \quad & -9x - 10 + 5y = 0 \\ & 18 = 9y - 18x \end{aligned}$$

$$\begin{aligned} 14) \quad & 10x = -5y \\ & 9x = -7y + 25 \end{aligned}$$

$$\begin{aligned} 15) \quad & 8x = 5y + 30 \\ & -3y = 3x - 21 \end{aligned}$$

$$\begin{aligned} 16) \quad & 6x - 2y = -30 \\ & -10x - 26 = -6y \end{aligned}$$

$$\begin{aligned} 17) \quad & -10 - 10x = -10y \\ & 6y - 8x = 8 \end{aligned}$$

$$\begin{aligned} 18) \quad & 7 - 4x = -5y \\ & 4y - 9x = 6 \end{aligned}$$

$$\begin{aligned} 19) \quad & 0 = -16 - 2x - 3y \\ & 9x = 10y - 25 \end{aligned}$$

$$\begin{aligned} 20) \quad & 0 = -18x - 18 - 36y \\ & -4x - 8y = 16 \end{aligned}$$

Answers to Solving Systems by Elimination (ID: 1)

1) $(0, 2)$

5) $(1, -3)$

9) $(-5, -8)$

13) $(0, 2)$

17) $(-1, 0)$

2) $(6, -4)$

6) $(-1, 4)$

10) $(1, -3)$

14) $(-5, 10)$

18) $(-2, -3)$

3) $(1, 0)$

7) $(-3, 2)$

11) $(-1, 3)$

15) $(5, 2)$

19) $(-5, -2)$

4) $(6, -3)$

8) $(10, -4)$

12) $(0, 0)$

16) $(-8, -9)$

20) No solution