

Algebra 1.5

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Solve each system by elimination. Find one variable, then find the other. Put both values in the 'unused' equation to check your answer. Graph any 6 equations to see the intersection.

1) $-3x + 9y = 6$
 $3x + 5y = 8$

2) $4x + 2y = -12$
 $-5x - 2y = 11$

3) $4x + 6y = -14$
 $9x + 6y = 6$

4) $-x + y = 0$
 $-x + 2y = -5$

$$\begin{aligned} 5) \quad & -3x + 2y = -5 \\ & -3x + 5y = 1 \end{aligned}$$

$$\begin{aligned} 6) \quad & 2x - 10y = 6 \\ & 2x + 4y = -22 \end{aligned}$$

$$\begin{aligned} 7) \quad & -2x - 3y = -8 \\ & 5x + 12y = 2 \end{aligned}$$

$$\begin{aligned} 8) \quad & -8x + 7y = -5 \\ & -16x + 14y = -10 \end{aligned}$$

$$\begin{aligned} 9) \quad & -18x - 10y = -14 \\ & 9x + 7y = 17 \end{aligned}$$

$$\begin{aligned} 10) \quad & 4x - 3y = -11 \\ & -2x + 6y = 10 \end{aligned}$$

$$\begin{aligned} 11) \quad & -40x + 5y = 0 \\ & -8x + y = 7 \end{aligned}$$

$$\begin{aligned} 12) \quad & -4x + 12y = -24 \\ & -5x - 4y = 27 \end{aligned}$$

$$\begin{aligned} 13) \quad & -3x + 10y = -10 \\ & 9x - 2y = 2 \end{aligned}$$

$$\begin{aligned} 14) \quad & 7x + y = -8 \\ & 4x + 3y = 10 \end{aligned}$$

$$\begin{aligned} 15) \quad & 3x - 3y = 15 \\ & 4x - 2y = 16 \end{aligned}$$

$$\begin{aligned} 16) \quad & 10x + 4y = 0 \\ & 4x - 3y = 0 \end{aligned}$$

$$\begin{aligned} 17) \quad &6x + 7y = 22 \\ &-4x + 5y = 24 \end{aligned}$$

$$\begin{aligned} 18) \quad &6x + 8y = 0 \\ &-8x + 6y = 0 \end{aligned}$$