

Solving Systems of Equations by Elimination

Date_____ Period____

Solve each system by elimination.

1)
$$\begin{aligned} -4x - 2y &= -12 \\ 4x + 8y &= -24 \end{aligned}$$

2)
$$\begin{aligned} 4x + 8y &= 20 \\ -4x + 2y &= -30 \end{aligned}$$

3)
$$\begin{aligned} x - y &= 11 \\ 2x + y &= 19 \end{aligned}$$

4)
$$\begin{aligned} -6x + 5y &= 1 \\ 6x + 4y &= -10 \end{aligned}$$

5)
$$\begin{aligned} -2x - 9y &= -25 \\ -4x - 9y &= -23 \end{aligned}$$

6)
$$\begin{aligned} 8x + y &= -16 \\ -3x + y &= -5 \end{aligned}$$

7)
$$\begin{aligned} -6x + 6y &= 6 \\ -6x + 3y &= -12 \end{aligned}$$

8)
$$\begin{aligned} 7x + 2y &= 24 \\ 8x + 2y &= 30 \end{aligned}$$

9)
$$\begin{aligned} 5x + y &= 9 \\ 10x - 7y &= -18 \end{aligned}$$

10)
$$\begin{aligned} -4x + 9y &= 9 \\ x - 3y &= -6 \end{aligned}$$

11)
$$\begin{aligned} -3x + 7y &= -16 \\ -9x + 5y &= 16 \end{aligned}$$

12)
$$\begin{aligned} -7x + y &= -19 \\ -2x + 3y &= -19 \end{aligned}$$

$$13) \begin{aligned} 16x - 10y &= 10 \\ -8x - 6y &= 6 \end{aligned}$$

$$14) \begin{aligned} 8x + 14y &= 4 \\ -6x - 7y &= -10 \end{aligned}$$

$$15) \begin{aligned} -4x - 15y &= -17 \\ -x + 5y &= -13 \end{aligned}$$

$$16) \begin{aligned} -x - 7y &= 14 \\ -4x - 14y &= 28 \end{aligned}$$

$$17) \begin{aligned} -7x - 8y &= 9 \\ -4x + 9y &= -22 \end{aligned}$$

$$18) \begin{aligned} 5x + 4y &= -30 \\ 3x - 9y &= -18 \end{aligned}$$

$$19) \begin{aligned} -4x - 2y &= 14 \\ -10x + 7y &= -25 \end{aligned}$$

$$20) \begin{aligned} 3x - 2y &= 2 \\ 5x - 5y &= 10 \end{aligned}$$

$$21) \begin{aligned} 5x + 4y &= -14 \\ 3x + 6y &= 6 \end{aligned}$$

$$22) \begin{aligned} 2x + 8y &= 6 \\ -5x - 20y &= -15 \end{aligned}$$

$$23) \begin{aligned} -14 &= -20y - 7x \\ 10y + 4 &= 2x \end{aligned}$$

$$24) \begin{aligned} 3 + 2x - y &= 0 \\ -3 - 7y &= 10x \end{aligned}$$

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Solve each system by elimination.

1)
$$\begin{aligned} -4x - 2y &= -12 \\ 4x + 8y &= -24 \end{aligned}$$

(6, -6)

2)
$$\begin{aligned} 4x + 8y &= 20 \\ -4x + 2y &= -30 \end{aligned}$$

(7, -1)

3)
$$\begin{aligned} x - y &= 11 \\ 2x + y &= 19 \end{aligned}$$

(10, -1)

4)
$$\begin{aligned} -6x + 5y &= 1 \\ 6x + 4y &= -10 \end{aligned}$$

(-1, -1)

5)
$$\begin{aligned} -2x - 9y &= -25 \\ -4x - 9y &= -23 \end{aligned}$$

(-1, 3)

6)
$$\begin{aligned} 8x + y &= -16 \\ -3x + y &= -5 \end{aligned}$$

(-1, -8)

7)
$$\begin{aligned} -6x + 6y &= 6 \\ -6x + 3y &= -12 \end{aligned}$$

(5, 6)

8)
$$\begin{aligned} 7x + 2y &= 24 \\ 8x + 2y &= 30 \end{aligned}$$

(6, -9)

9)
$$\begin{aligned} 5x + y &= 9 \\ 10x - 7y &= -18 \end{aligned}$$

(1, 4)

10)
$$\begin{aligned} -4x + 9y &= 9 \\ x - 3y &= -6 \end{aligned}$$

(9, 5)

11)
$$\begin{aligned} -3x + 7y &= -16 \\ -9x + 5y &= 16 \end{aligned}$$

(-4, -4)

12)
$$\begin{aligned} -7x + y &= -19 \\ -2x + 3y &= -19 \end{aligned}$$

(2, -5)

$$\begin{aligned}13) \quad & 16x - 10y = 10 \\& -8x - 6y = 6\end{aligned}$$

(0, -1)

$$\begin{aligned}14) \quad & 8x + 14y = 4 \\& -6x - 7y = -10\end{aligned}$$

(4, -2)

$$\begin{aligned}15) \quad & -4x - 15y = -17 \\& -x + 5y = -13\end{aligned}$$

(8, -1)

$$\begin{aligned}16) \quad & -x - 7y = 14 \\& -4x - 14y = 28\end{aligned}$$

(0, -2)

$$\begin{aligned}17) \quad & -7x - 8y = 9 \\& -4x + 9y = -22\end{aligned}$$

(1, -2)

$$\begin{aligned}18) \quad & 5x + 4y = -30 \\& 3x - 9y = -18\end{aligned}$$

(-6, 0)

$$\begin{aligned}19) \quad & -4x - 2y = 14 \\& -10x + 7y = -25\end{aligned}$$

(-1, -5)

$$\begin{aligned}20) \quad & 3x - 2y = 2 \\& 5x - 5y = 10\end{aligned}$$

(-2, -4)

$$\begin{aligned}21) \quad & 5x + 4y = -14 \\& 3x + 6y = 6\end{aligned}$$

(-6, 4)

$$\begin{aligned}22) \quad & 2x + 8y = 6 \\& -5x - 20y = -15\end{aligned}$$

Infinite number of solutions

$$\begin{aligned}23) \quad & -14 = -20y - 7x \\& 10y + 4 = 2x\end{aligned}$$

(2, 0)

$$\begin{aligned}24) \quad & 3 + 2x - y = 0 \\& -3 - 7y = 10x\end{aligned}$$

(-1, 1)

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