

Algebra I Systems by Elimination

(I) Same Coefficients

$$1) \begin{array}{l} 2x + 3y = 7 \\ -2x + y = 5 \end{array}$$

$$2) \begin{array}{l} 3x + y = 6 \\ 3x - 2y = 9 \end{array}$$

$$3) \begin{array}{l} x + y = -3 \\ x - y = 1 \end{array}$$

$$4) \begin{array}{l} -4x - y = 9 \\ 4x + 2y = -10 \end{array}$$

$$5) \begin{array}{l} x + 6y = 48 \\ -x + y = 8 \end{array}$$

$$6) \begin{array}{l} x - 2y = 5 \\ -3x + 2y = -9 \end{array}$$

$$7) \begin{array}{l} 0.2x + 2y = -10 \\ 2x + 2y = -10 \end{array}$$

$$8) \begin{array}{l} 3x - 9y = -51 \\ 3x - 7y = -37 \end{array}$$

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(II) Different Coefficients - Multiply One Equation

$$1) \begin{cases} 2x + 5y = -1 \\ x + 2y = 0 \end{cases}$$

$$2) \begin{cases} 3x + 6y = 6 \\ 2x - 3y = 4 \end{cases}$$

$$3) \begin{cases} 4x - y = 6 \\ 3x + 2y = 21 \end{cases}$$

$$4) \begin{cases} 8x - 9y = 19 \\ 4x + y = -7 \end{cases}$$

$$5) \begin{cases} -x + 8y = -32 \\ 3x - y = 27 \end{cases}$$

$$6) \begin{cases} 7x + 3y = 25 \\ -2x - y = -8 \end{cases}$$

$$7) \begin{cases} x + 8y = 28 \\ -3x + 5y = 3 \end{cases}$$

$$8) \begin{cases} -6x + 12y = 120 \\ 5x - 6y = -48 \end{cases}$$

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(III) Different Coefficients - Multiply Two Equations

$$\begin{array}{l} 1) \quad 4x - 3y = 11 \\ \quad \quad 3x - 5y = -11 \end{array}$$

$$\begin{array}{l} 2) \quad 3x + 8y = 81 \\ \quad \quad 5x - 6y = -39 \end{array}$$

$$\begin{array}{l} 3) \quad 6x + 3y = 27 \\ \quad \quad -4x + 7y = 27 \end{array}$$

$$\begin{array}{l} 4) \quad 5x + 9y = 112 \\ \quad \quad 3x - 2y = 8 \end{array}$$

$$\begin{array}{l} 5) \quad 2x - 7y = 9 \\ \quad \quad 8x + 5y = 69 \end{array}$$

$$\begin{array}{l} 6) \quad 3x + 5y = 18 \\ \quad \quad 12x - 3y = 3 \end{array}$$

$$\begin{array}{l} 7) \quad 5x - 6y = 48 \\ \quad \quad 2x + 5y = -3 \end{array}$$

$$\begin{array}{l} 8) \quad 4x - 3y = 17 \\ \quad \quad 5x + 4y = 60 \end{array}$$