

Solving Systems of Linear Equations in Two Variables

Solve each system of equations for both x and y .

$$1. \begin{cases} 6x - 5y = 20 \\ 2x + 6y = 22 \end{cases}$$

$$2. \begin{cases} y = 3x - 4 \\ y = 31 - 2x \end{cases}$$

$$3. \begin{cases} x - y = 20 \\ x + y = 30 \end{cases}$$

$$4. \begin{cases} x - 3y = 23 \\ y = 1 - x \end{cases}$$

$$5. \begin{cases} 5x - 2y = -20 \\ 5x + 6y = 20 \end{cases}$$

$$6. \begin{cases} 3 - y = 4x \\ y - 15 = 2x \end{cases}$$

$$7. \begin{cases} x + 6y = 122 \\ 2x + y = 24 \end{cases}$$

$$8. \begin{cases} y - 3x = -4 \\ y + 6 = x \end{cases}$$

$$9. \begin{cases} 3x - 5y = -8 \\ 4x + 6y = 2 \end{cases}$$

$$10. \begin{cases} y = 4 - 3x \\ 2x + 3y = 26 \end{cases}$$