

Reasoning with Equation and Inequalities - Worksheet 5

For problems **1 - 4**, come up with at least one system of equations equivalent to the ones below. For problems **5 - 10**, solve the system of linear equations.

$$\begin{array}{l} 1. \quad x - 2y = 4 \\ \quad \quad 3x + y = 9 \end{array}$$

$$\begin{array}{l} 6. \quad 3s + b = 7 \\ \quad \quad 2y - x = 3 \end{array}$$

$$\begin{array}{l} 2. \quad -m + n + 3 = 0 \\ \quad \quad m + 2n = 9 \end{array}$$

$$\begin{array}{l} 7. \quad 6x + y = 20 \\ \quad \quad -7y = 2x \end{array}$$

$$\begin{array}{l} 3. \quad p - 3 + x = 90 \\ \quad \quad 2x + p = 4 \end{array}$$

$$\begin{array}{l} 8. \quad x + y = 21 \\ \quad \quad 2x = 33 + y \end{array}$$

$$\begin{array}{l} 4. \quad s - 1 = t \\ \quad \quad -t + 2s = 7 \end{array}$$

$$\begin{array}{l} 9. \quad 7 = 17w - 3u \\ \quad \quad 5u = w + 16 \end{array}$$

$$\begin{array}{l} 5. \quad x + 3y = 2 \\ \quad \quad s - b = 10 \end{array}$$

$$\begin{array}{l} 10. \quad r - h = -1 \\ \quad \quad 2r - 2 = h \end{array}$$

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