Algebra 1 – BM 1 Practice Problems

1. Solve the inequality for x: $4x - 9 \leq 7$

2. For the given equation, enter the value of N when y = 4. $3y + 2N = 1$

3. Solve the given equation for y: $b + y = 36$

4. Enter the value of y that makes the given equation true: $3(5 - y) = 4y + 6$

5. Solve the inequality for p: $p + 12 > 30$

6. Solve the inequality for x: $2(8 - 3x) \leq 10$

7. Show the steps to solve for y from the equation:

$$k(y - 4) = m$$

Write the correct algebraic steps in order until y = ...

8. Daniel solves for y in the equation:

$$4(-3y + 5) - 7 = -12y + 13$$

Daniel concludes that the equation has no solution. Is Daniel correct? Explain why or why not.

9. A candle is 25 cm tall at the beginning. Each hour, it burns down 0.8 cm. Write an equation for the candle's height H after t hours.

10. The equation of a line is given by $y = 2x - 3$. Determine whether the point (4,5) is a solution to this equation.

11. The graph of a line passes through the point (0,2) and has slope -3/4. Write the equation of the line.