Name: _____ Date: _____ Period: _____

Solving Literal Equations Assignment

For # 1-8, solve each of the following equations for $x$:

1.  $2(3x + 4) = 4x + 12$

2.  $2(3x + 4y) = 4x + 12$

3.  $\frac{3x+2}{5} = 7$

4.  $\frac{3x+2y}{5} = 7$

5.  $\frac{4x}{3} - 5 = 11$

6.  $\frac{4x}{3} - 5y = 11$

7. $\frac{2}{5}(x + 3) = 6$

8. $\frac{2}{5}(x + y) = 6$

9. Solve for x: $\frac{rx + 9}{5} = h$

10. Solve for w: $\frac{2}{3}w + 5v = -4s$

11. Write the equation r in terms of m: $3r - 7m = 5m - 4$

12. Write the equation m in terms of r: $3r - 7m = 5m - 4$

13. Write the equation y in terms of x: $8x^2 + 24y = 40$

14. Angles A, B, and C are the angles of a triangle. Write an equation for the sum of the measures of the angles of the triangle:

15. Solve the equation in #14 for B: