

## Evaluating and Simplifying Expressions

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

Simplify the following expressions.

1.  $-(2x^2 - 8 + 3y^2 - 10x^2 + 4)$

2.  $-(-3x - 9 + x + 8 - xy) + (-4xy - 10 - 6x + 3)$

3.  $-(5xy - 1 - 6xy + x^2 - 3 - 4x^2) - (5x^2 + 5 - x^2)$

4.  $3(4x - 8 - 6x + 3) - 4x(-x + 5 - 9 + 7x)$

Evaluate.

5.  $-(8x - 11 - y^2 - 7x + 3y^2)$   $x = 4$  and  $y = 3$

6. Evaluate previous expression again for  $x = -4$  and  $y = -3$

**Evaluate.**

7.  $2(4xy - 1 - 5xy + 6) - (-xy + 2y^2 - 6)$   $x = 1$  and  $y = 5$

8. Evaluate previous expression again for  $x = -1$  and  $y = -5$

**Simplify.**

9.  $-2(8 - 4 \cdot 3^2 - 5) + 30$