

Simplifying Expressions

Name: _____

Date: _____

Simplify each expression completely. Then Evaluate #2, 3, 9, and 10 using the given values.

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

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

3. $(3xy + 9 - 7xy) + (3xy + 2) - 3x + x$ $x = 1$ $y = -2$

4. $-8rs + 25 + 2s + 10rs + -5 + 12s$

5. $8y - 2xy + 4x + 2 - y$

6. $-(y - 18 + 2x + 5) + 3(-5x + 7 + -x - 2y)$

7. $-2(1y^3 + 4y - 1) - (4y^3 + 3y + 3)$

8. $(4c^2 - 7c + 4 + 3c) - (5 + c^2 - 5c)$

9. $3x(-6x + 5) - (-4x + 3x^2)$ $x = -5$

10. $-4(2x - 8) + 5(-3x - 9)$ $x = 4$