

Simplifying Algebraic Expressions ... A Step Higher

Name: _____

1) $10x^3 - 2x^2 + 5x^3 - 6x^2$

2) $9 + 2x^5 - 3x^6 + 5x^5 - x^6 - 1$

3) $2(x^2 + 2x^2) + 5(x^3 - 4)$

4) $5x(x + 5) + 2(-2x - 10)$

5) $11x^3 - 2x^2 + 5x + 8x^2 + 2x^3 - 3x(5x - 2)$

6) $6(2x^3 + 2x^2 + 5x^3 - 3x^2)$

$$7) \quad \frac{1}{2}(-13x^3 + 2x^2 - 6x^2 + 5x^3 - 10)$$

$$8) \quad \frac{2}{3}(2x^2 + 6x^3 - 2x^3 - 11x^2)$$

$$9) \quad 10x^3 - 2x^2 + 5x^3 - 6x^2 - (5x^3 - 6x^2 + 10x^3 - 2x^2)$$

$$10) \quad 5(a^6 + 2a^5) - 6a(5a^5 - 7a^6)$$

$$11) \quad 12 - 2x^2 + 5x - (6x^2 + 12)$$

$$12) \quad = 7(10 + x^2 - 5x^2 - 6)$$