

Name _____

SIMPLIFYING EXPRESSIONS #7

Directions: Use the distributive property to simplify the expressions below.

Examples: $4x^2(2x - 3) = 8x^3 - 12x^2$

$4x^2y^5(2xy^2 - \frac{1}{2}xy) = 8x^3y^7 - 2x^3y^6$

1) $4x^2(2x^3 - 5x) =$ _____

2) $4x^2(2x^3 + 5x) =$ _____

3) $2x^4(3x^3 - 5x^2) =$ _____

4) $10x^2(2x + 5x) =$ _____

5) $4x^2y(2x^3y + 5xy) =$ _____

6) $7x^6y^3(2x^3y^2 - 5xy^3) =$ _____

7) $4a^2(2a^3 - 5ab) =$ _____

8) $6x^2(\frac{1}{2}x^3 - 5x) =$ _____

9) $-4x^2(2x^2 + 5x^2) =$ _____

10) $4x^2(2x^3 + 5x^2 + x) =$ _____