

## Operations with Polynomials Review WS

Simplify each expression. Write your answer in general form.

1)  $(5m^3 - 6m^4 - 4m^5) - (5m^5 - 8m^3 + 4m)$

2)  $(-x - 6 - 7x^3) + (6x^4 + 6x - 3)$

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

4)  $(1 - 4p^5 - 7p^2) + (-4 - 5p^5 - 2p^2)$

5)  $(6 + 2n + 8n^5) + (4n^5 - n - 1)$

6)  $(-4x + 3 - 4x^3) - (7 + 4x^3 - 2x)$

7)  $(8p^4 - 8p^3 + 3p^5) + (p^5 + 3p^4 + 3p^3)$

8)  $(4x^2 + 7 + 6x^5) - (-8 + 4x^5 + x^4)$

$$9) (-2n^5 + 5n^3 + 6n^2) - (8n^5 - 7n^2 - 2n^3)$$

$$10) (8b^2 - 4b^5 - 6b^3) + (3b^2 + 5b^3 - 8b^5)$$

$$11) (5v - 5)(-6v + 4)$$

$$12) (4x - 6)(-x + 5)$$

$$13) (-5b + 3)(2b - 5)$$

$$14) (4a + 6)(5a - 6)$$

$$15) (5m + 5)(5m - 5)$$

$$16) (m + 5)(m - 5)$$

$$17) (2a + 8)^2$$

$$18) (3k - 3)^2$$