

Subtracting Polynomials

Date _____ Period _____

Simplify each difference.

1) $(12r^5 + 5r^4) - (11r^2 + 4r^5)$

2) $(7n^2 + 4) - (8 - 6n^2)$

3) $(2b^4 + 6) - (7 - 5b^4)$

4) $(5k^4 - 12k^3) - (3k^3 + 11k^4)$

5) $(-9y^2 + 12x^3y^5) - (10x^3y^5 + y^2)$

6) $(-9x^3y^5 - 7x^2y^4) - (10x^3y^5 + 9x^2y^4)$

7) $(-6uv^5 + 8uv^4) - (-10uv^4 - 12uv^5)$

8) $(x^2 - 8x^3 - 9x^4) - (7x^2 - 2x^3 + 12x^4)$

9) $(12m^5 + 11 - 4m^3) - (10m^2 - 1 - 2m^3)$

10) $(5x^5y + 2x^5y^5 - 3xy^2) - (3x^5y^3 - 3xy^2 - 8x^5y)$

11) $(5x^2 + 6x^4y^3 + 7x) - (9x - 4x^2 - 3x^4y^3)$

12) $(7x^3y^4 - xy^4 + 12x^5y^4 + 12x^4y^3) - (3x^5y^4 + 4x^4y^3 - 12x^3y^4)$

$$13) (12a^2b - 8a + 7ab + 10a^2b^4) - (11ab + 6a^2b^4 + 4a)$$

$$14) (7 + 11m^3 + 4m^4 - m^5) - (12m^5 + 2m^4 + 2 - 4m^3)$$

$$15) (11x^4 - 5x^3 - 4x^2 + 6x) - (x^4 + 12 + 2x^2 - 9x^3)$$

$$16) (x^5 + 7x + 10x^4 - 4x^3) - (5x^5 - 11x^4 + 2x - 11x^3)$$

$$17) (6y^2 + 3x^2y^2 + 3x^3y^3 + 2x^2y^5) - (-7x^2y^2 + 6y^2 + 7x^2y^5 + 12x^3y^3)$$

$$18) (12 + 5x^4y + 4x^4y^4 - 2x^2) - (-6 + 8x^2 + 3x^4y - 3x^4y^4)$$

$$19) (4x^2y - x^3y^4 - 11y^4 + 8y^5) - (4x^2y - 3y^4 + 3x^3y^4 + 11x^4y^3)$$

$$20) (5v^5 - 2u^5v - 8u^2v + 8v^4) - (3v^4 + 10u^5v - 9u^2v + 10u^3) - (5v^5 - 12u^3 + 8v^4 + u^2v)$$