

Name: _____

Adding and Subtracting Polynomials

Add or subtract the polynomials. Make sure your answer is in **standard form**!

1) $(5x^2 + 7x) + (3x^2 + x)$

2) $(9x^3 + 2x^2) + (6x^2 - 2x^3)$

3) $(2a^3 + 7a^2 - 10)$
 $+ (a^3 - 6a^2 - 2)$

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

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

6) $(2a^3 + 7a^2 - 10)$
 $- (a^3 - 6a^2 - 2)$

7) $(8p^3 + 7p) + (9p^2 + 10p)$

8) $(8p^3 + 7p)$
 $- (9p^2 + 10p)$

9) $(6b^4 + 3b + 8) + (9b - 9)$

10) $(4q^2 - 8q + 9) + (-9 + 8q - 4q^2)$

11) $(5y^2 - 20y) - (-5y^2 + 20y)$

12) $(n + n^2 + n^3) - (n^3 + n^4 + n)$

13) $(10 - 18x + x^2) + (2x^2 - 10)$

14) $(9x^4 + 8x^3 + 7x^2 + 6x + 5) + (x^4 + 2x^3 + 3x^2 + 4x + 5)$

15) $(10d^4 + 5d^3 + 7d^2) + (-d^4 + 2d^3 + 4d^2) - (3d^4 + 4d^3)$

16) $(8a^2 + 7a) + (3a^2 - 4) + (2a + 11) - (6a^2 + a)$

17) $(20a^5 + 3a^8 + 2a^3 + 8a + 7a^9 + 12a^2 + 6a^6 + a^7 + 100a^4 + 6) + (2a^8 - 7a^5 + 50a^4 + 17a^9 + 11a^3 + 8 + a - 3a^2 + 2a^6 + 4a^7)$

18) $(12x + 5) + \underline{\hspace{2cm}} = 15x + 11$

19) $(7x^3 - 6x - 3) + \underline{\hspace{2cm}} = 7x^3 + 11$

20) $\underline{\hspace{2cm}} + (x + x^2 + 6) = 3x^2 + 2x + 1$