

Name: _____

Date: _____

2.4-A- Adding/Subtracting Polynomials

Add the following polynomials:

1. $7x + 3 + 3x + 5$

=

2. $(2x + 8) + (4x + 3)$

=

3. $(x + 7) + (3x + 4)$

=

4. $(4x - 3) + (3x + 2)$

=

5. $(7x^2 + 4x + 5) + (2x^2 + 3x + 8)$

=

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

Subtract the following polynomials:

7. $(5x + 6) - (2x + 5)$

=

8. $(3x + 6) - (x + 4)$

=

9. $(x + 2) - (2x - 1)$

=

10. $(3x - 7) - (-x - 3)$

=

11. $(x + 4x^2 - 3) - (3x - 4 - 2x^2)$

=

12. $(-3 - 5x^2 + 7x) - (x^2 - 5 - 3x) =$

Simplify the following:

13. $(4x^2 + 6x + 8) - (2x^2 + 6x - 3) + (3x^2 + 4x + 6) =$

14. $(2x^2 - 5x - 9) + (5x^2 - 5x - 2) - (x^2 - 7x + 8) =$

15. $(3x^2 - xy - 3y^2) - (8x^2 + xy + 2y^2) + (3y^2 - 2x^2 + 9xy) =$

16. $(y^2 - xy + 7x^2) + (5x^2 - 5xy + 3y^2) - (2y^2 + 2x^2 - xy) =$

17. $(3ab^3 - 2a^2b + 2b^2) + (3a^3 - 2a^2b + 3b^2) - (ab^3 + a^3) =$

18. $(4mn^2 + 3n^3) - (2m^3 + 3m^2n - 2n^3) - (m^2n + mn^2 + 3n^3) =$

19. $(5xyz + 2x^2y + 3xz) + (5xz - 2xy^2 + 4xyz) - (3x^2y - 2xz) =$