

Name: _____

Date: _____

Algebra I

Directions: Find the sum.

1. $(9x - 5y) + (-4x - y)$

2. $(5x^2 - 3x + 2) + (3x^2 - 4x - 1)$

3. $(6x^2 - 3x + 2) + (2x^2 - 3x - 1)$

4. $(3x - y) + (2x + y) + (y - 5x)$

5. $(12x^2 - 2x + 1) + (3x - 7)$

Directions: Find the difference.

6. $(9x - 5y) - (-4x - y)$

7. $(5x^2 - 3x + 2) - (3x^2 - 4x - 1)$

8. $(6x^2 - 3x + 2) - (2x^2 - 3x - 1)$

9. $(3x - y) - (2x + y) - (y - 5x)$

10. $(12x^2 - 2x + 1) - (3x - 7)$

11. What must be added to $(3x - 6)$ to produce a sum of 0.
12. From the sum of $(-6x + y)$ and $(2x - y)$, subtract $(-3x + y)$.
13. Arrange the polynomial in ascending order: $(3x^2 - 7 + 4x)$.
14. Subtract the sum of $(c^2 - 5)$ and $(-2c^2 + 3c)$ from $(4c^2 - 6c + 7)$.
15. Simplify in descending order: $(3a - (5a - a) + a^2)$.
16. Simplify: $12y - 3y(2y - 4)$
17. Find the sum: $(x^2 + 7xy + 3y^2)$, $(-2y^2 + 3x^2 - 4xy)$, $(xy - 2x^2 - 4y^2)$
18. Simplify: $9a - [5a^2 - (7 + 9a - 2a^2)]$