

Name: _____

Date: _____

Simplifying Polynomial Expressions

Section I. Add and Subtract the polynomials

1. $(2x + 9) + (4x - 1)$

2. $(9y - 7) - (3y - 5)$

3. $(4f - 6) + (11f - 5)$

4. $(5k + 3) - (k + 12)$

5. $(3x^2 + 7x - 8) + (2x^2 - 4x - 6)$

6. $(m^2 + 2m - 11) - (8m^2 - 2m - 9)$

7. $(7g^2 + 3g + 1) - (2g^2 + 15)$

8. $(6a^2b - 9a + 4b) + (17a - 21b)$

Section II. Multiply the monomial by the polynomial.

9. $2h(7h - 9)$

10. $-3b(8b - 12)$

11. $7k(4k^2 + 8k)$

12. $9xy(3x + 8y)$

13. $8h(6h^2 + 7h - 4)$

14. $-4vw^2(3v - 12w^2 - 2)$

15. $-6a^2b(-6a - 3ab + 5b^2)$

16. $pj(3mj + 2pq - 15)$