

4.2 Notetaking with Vocabulary (continued)**Extra Practice**

In Exercises 1–3, find the sum or difference.

1. $(-4x^2 - 6x + 18) + (-x^2 + 7x + 8)$

2. $(6x^2 - 12x + 48) - (-x^2 + 24x - 63)$

3. $(-11x^4 - x^3 - 3x^2 + 10x - 2) - (-11x^4 + 5x^2 - 7x + 13)$

In Exercises 4–9, find the product.

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

5. $(x^4 - 10x^2 + 25)(3x^2 - 6x - 1)$

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

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

8. $(3y - 8)(3y + 8)$

9. $(2v - 1)^3$

In Exercises 10 and 11, use Pascal's Triangle to expand the binomial.

10. $(4t - 2)^4$

11. $(g + 6)^5$