

Section 14-1, 14-2, 14-3 Review

Name: _____

Simplify each polynomial.

4. $2x^2 - 8x^2 + 12x$

5. $7x^2 + 7x + 12x^2$

6. $16x + 3 - 9x + x^2$

7. $14x + 9 - 5x - 3x^2$

8. $7x + 8 - x - 10$

9. $-13 - 2x - 16x - 7$

10. $-5x + 16 + 10x^2 + 3x$

11. $-x^2 - 24 + 9x^2 + 14x$

12. $6x^3 + 3 - x^2 + 9x^2$

13. $-5x^3 + 5x^2 - x^2 + 5$

14. $2x^3 - 7x + 2x^3 - 2x^2 + 6x$

15. $-4x^2 + 9x^3 - 14x^2 - 6x^3 - 5x^2$

Find each sum.

1. $(5x + 21) + (10x + 13)$

2. $(-9x + 12) + (-5x + 14)$

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

4. $(11x^2 - 8x) + (7x^2 + 13x)$

5. $(3x^2 - 18x + 27) + (9x + 21)$

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

7. $(5x^2 - 2x - 9) + (-12x + 3)$

8. $(9x^2 + 7x + 10) + (5x^2 - 8x)$

9. $(-6x^2 - 5x - 16) + (-x^2 - 14x - 10)$

10. $(8x^2 + 11x + 9) + (6x^2 + 3x + 15)$

Subtract.

11. $(6x - 1) - (2x - 5)$

12. $(7x + 3) - (x + 9)$

13. $(x - 2) - (x - 9)$

14. $(6x + 3) - (3x + 8)$

15. $(x^2 + 2x - 8) - (4x - 10)$

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

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

18. $(5x^2 - 4x - 2) - (4x^2 - 9x - 7)$