

# Chapter 1 Mid-Chapter Test

(Sections 1.1 through 1.4)

## Part I

1. Simplify the expression. Write the answer using positive exponents in the right of each equation.

1.  $3x^2 + 4x^2 - 2x^2$        $5x^3 + 2x^3 - 7x^3$        $6x^4 - 3x^4 + 8x^4$        $9x^5 - 4x^5 - 2x^5$

2.  $2x^3 + 5x^3 - 3x^3$        $7x^4 + 1x^4 - 4x^4$        $3x^5 - 6x^5 + 9x^5$        $8x^6 - 2x^6 - 5x^6$

3. Simplify each expression like in 1. Write the answer in simplest form.

3.  $2x^2 + 3x^2 - 4x^2$        $5x^3 + 1x^3 - 2x^3$        $6x^4 - 3x^4 + 7x^4$        $8x^5 - 4x^5 - 1x^5$

4.  $3x^2 + 4x^2 - 2x^2$        $5x^3 + 2x^3 - 7x^3$        $6x^4 - 3x^4 + 8x^4$        $9x^5 - 4x^5 - 2x^5$

5.  $2x^3 + 5x^3 - 3x^3$        $7x^4 + 1x^4 - 4x^4$        $3x^5 - 6x^5 + 9x^5$        $8x^6 - 2x^6 - 5x^6$

6.  $2x^2 + 3x^2 - 4x^2$        $5x^3 + 1x^3 - 2x^3$        $6x^4 - 3x^4 + 7x^4$        $8x^5 - 4x^5 - 1x^5$

7. Write the property used in each of the following.

- a.  $3x^2 + 4x^2 = 7x^2$        $5x^3 + 2x^3 = 7x^3$
- b.  $6x^4 - 3x^4 + 8x^4 = 11x^4$        $9x^5 - 4x^5 - 2x^5 = 3x^5$

## Part II

8. Simplify each expression using properties of exponents. Write the answer in simplest form.

8.  $2x^2 + 3x^2 - 4x^2$        $5x^3 + 1x^3 - 2x^3$

9. Write the property used in each of the following equations and each algebraic expression.

9.  $3x^2 + 4x^2 = 7x^2$        $5x^3 + 2x^3 = 7x^3$

10.  $6x^4 - 3x^4 + 8x^4 = 11x^4$        $9x^5 - 4x^5 - 2x^5 = 3x^5$

11.  $2x^3 + 5x^3 - 3x^3 = 4x^3$        $7x^4 + 1x^4 - 4x^4 = 4x^4$

12.  $3x^5 - 6x^5 + 9x^5 = 6x^5$

13. Explain, including which law of exponents you used, how you simplified each of the following. Write each of the simplified expressions in simplest form.

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