

**Review (Sections R.2, and R.3)**

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

Chapter R: Review of Basic Concepts

Solve the equation by factoring.

1).  $x^2 + 5x = 0$

2).  $x^2 - 6x - 27 = 0$

3).  $x^2 + 5x = 24$

4).  $x^2 + 12x - 45 = 0$

5).  $9x^2 - 25 = 0$

6).  $3x^2 - 12x - 36 = 0$

Multiply Polynomials

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

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

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

4).  $(2x + 1)^2$

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5).  $(3p^2 - 4p + 1)(p^3 + 2p - 8)$

6).  $(x + y)^3$

Using the Exponent Rules

1).  $(6z^5)(9z^3)(2z^2)$

2).  $(3^4x^2)^3$

3).  $\left(\frac{-2m^6}{t^2z}\right)^5$

4).  $-(-4)^0$

Add or subtract as indicated.

1).  $(2y^4 - 3y^2 + y) + (4y^4 + 7y^2 + 6y)$

2).  $(-3m^3 - 8m^2 + 4) - (m^3 + 7m^2 - 3)$