

Name Angela Date \_\_\_\_\_ Period \_\_\_\_\_

### Factoring Polynomials

Determine whether the given binomial is a factor of the polynomial  $P(x)$ .

1.  $(x - 3)$ ;  $P(x) = x^2 - 3x^2 + 8x - 64$

2.  $(x + 3)$ ;  $P(x) = -4x^3 - 12x^2 + 3x^2 + 6x^2 - 9x - 10$

$$\begin{array}{r|rrrrr} x-3 & 1 & -3 & 8 & -64 & \\ \hline & 1 & 0 & 11 & 28 & \end{array}$$

$$\begin{array}{r|rrrrrr} x+3 & -4 & -12 & 3 & 6 & -9 & -10 \\ \hline & -4 & 0 & -9 & 25 & 16 & \end{array}$$

Factor each expression completely. Remember to factor out the GCF first, if there is one.

3.  $8x^3 - 12x^2 - 5xy - 25$

4.  $x^3 - 64$

$$-1 \left( \begin{array}{r|rr} 8x^3 & -1 \\ \hline 8x^3 & -12x^2 \\ -5xy & -25 \end{array} \right) = -1(8x^3 - 12x^2 - 5xy - 25)$$

$$= (x^3 - 64)(x^2 + x + 1)$$

$$= 24x^3 - 3x^3$$

5.  $3x^3 - 3x^2 + 27x - 9$

6.  $2x^3 - 4x^2 + 6x - 3$

$$= 3 \left( \begin{array}{r|rr} 2x^3 & -1 \\ \hline 2x^3 & -4x^2 \\ 6x & -3 \end{array} \right) = 3(2x^3 - 4x^2 + 6x - 3)$$

7.  $2x^3 - 14x^2 + 49x - 35$

8.  $16x^3 - 25$

$$= 2x^3(2x^3 - 7x^2 + 24.5x - 17.5)$$

$$= (4x^2 - 5)(4x^2 + 5)$$

9.  $2x^3 - 2x$

10.  $2x^3 - 2x$

$$= 2x(x^2 - 1)(x + 1)$$

11.  $10x^3 - 2x^2 - 40x^2 + 8x$

12.  $5x^3 - 2x^2 - 40x^2 + 8x$

$$\begin{array}{r|rr} 5x^3 & -1 \\ \hline 5x^3 & -2x^2 \\ -40x^2 & 8x \end{array} = 5x(5x^3 - 2x^2 - 40x^2 + 8x)$$

13.  $3x^3 - 18x^2 + 24x - 12$

14.  $3x^3 - 18x^2 + 24x - 12$

# Electrical Problems Algebra 2 Unit 4

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