

9.3

Date _____ Period _____

© 2013 Kuta Software LLC. All rights reserved.

Factor each.

1) $x^3 - 64 = 0$

2) $x^3 + 27 = 0$

3) $x^2 - 2x - 8 = 0$

4) $x^4 + 5x^3 + 4x^2 = 0$

5) $x^4 + 2x^2 - 3 = 0$

6) $x^3 - 6x^2 + 8x = 0$

7) $x^3 - x^2 - 20x = 0$

8) $x^4 - 13x^2 + 42 = 0$

9) $x^3 - x^2 + 5x - 5 = 0$

10) $x^4 - 3x^2 - 18 = 0$

11) $x^4 - 9x^2 + 18 = 0$

12) $x^4 + 5x^2 + 6 = 0$

13) $x^4 + x^3 + 4x^2 + 4x = 0$

14) $x^4 - 8x^2 + 12 = 0$

15) $x^3 + 2x^2 - 3x = 0$

Answers to 9.3 (ID: 1)

1) $(x - 4)(x^2 + 4x + 16) = 0$

2) $(x + 3)(x^2 - 3x + 9) = 0$

3) $(x + 2)(x - 4) = 0$

4) $x^2(x + 1)(x + 4) = 0$

5) $(x - 1)(x + 1)(x^2 + 3) = 0$

6) $x(x - 4)(x - 2) = 0$

7) $x(x + 4)(x - 5) = 0$

8) $(x^2 - 7)(x^2 - 6) = 0$

9) $(x - 1)(x^2 + 5) = 0$

10) $(x^2 + 3)(x^2 - 6) = 0$

11) $(x^2 - 3)(x^2 - 6) = 0$

12) $(x^2 + 3)(x^2 + 2) = 0$

13) $x(x + 1)(x^2 + 4) = 0$

14) $(x^2 - 6)(x^2 - 2) = 0$

15) $x(x - 1)(x + 3) = 0$