ALG 2
CH 6
Sec 6.4

Perfect Cubes - Factoring + Solving Review

**Solve each equation using the Quadratic Formula.** PUT IN STANDARD FORM FIRST: $ax^2+bx+c=c$

1. $x^2 - 3x + 2 = 0$
2. $-x^2 + 5x = 9$
3. $10x - 6 = 5x^2$
4. $x + 2x^2 + 1 = -1 - x$
5. $2x^2 + x = 10$
6. $2x + 1 = 2x^2$

# Practice 6-4

**Solving Polynomial Equations**

**Factor the expression on the left side of each equation. Then solve the equation.** Check for GCFs 1st.

1. $8x^3 - 27 = 0$
2. $x^3 + 64 = 0$
3. $2x^3 + 54 = 0$
4. $2x^3 - 250 = 0$
5. $4x^3 - 32 = 0$
6. $27x^3 + 1 = 0$
7. $64x^3 - 1 = 0$
8. $x^3 - 27 = 0$

9. $343x^3 + 125 = 0$
10. $1000x^3 - 125 = 0$
11. $128x^3 + 1458 = 0$
12. $648x^3 + 3 = 0$