<u>GCF</u>

Solve.

1.
$$x^3 - 5x^2 = 0$$

2.
$$9x^2 - 18x = 0$$

3.
$$3x^3 - 15x^2 = 0$$

4.
$$8x^3 - 12x^2 = 0$$

Difference of 2 Squares

Solve.

5.
$$x^4 - 1 = 0$$

6.
$$x^4 - 256 = 0$$

$$7. x^4 - 625 = 0$$

8.
$$2x^4 - 8 = 0$$
 (hint: factor out GCF first!)

Sum & Difference of 2 Cubes

Formulas: $a^3 + b^3 =$

$$a^3 - b^3 =$$

Factor.

9.
$$x^3 + 1$$

10.
$$x^3 - 216$$

Solve.

11.
$$x^3 + 64 = 0$$

12.
$$x^3 - 343 = 0$$