$\qquad$

## GCF

Solve.

1. $x^{3}-5 x^{2}=0$
2. $9 x^{2}-18 x=0$
3. $3 x^{3}-15 x^{2}=0$
4. $8 x^{3}-12 x^{2}=0$

## Difference of 2 Squares

Solve.
5. $x^{4}-1=0$
6. $x^{4}-256=0$
7. $x^{4}-625=0$
8. $2 x^{4}-8=0$ (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. $x^{3}-343=0$

