

## Basic Skills Four

Factor the common factor out of each expression.

1)  $2 - 6n^3$

2)  $9x^2 + 9x + 3$

Factor each completely.

3)  $16v^2 - 1$

4)  $9r^2 - 12r + 4$

5)  $x^2 + 8x + 7$

6)  $5x^2 + 26x - 24$

7)  $4r^2 - 40r + 84$

Solve each equation by factoring.

8)  $n^2 - 7n + 10 = 0$

Solve each equation with the quadratic formula.

9)  $2a^2 - 3a - 1 = 0$

10) State the Discriminant below AND state what it does.

The Discriminant is

\_\_\_\_\_

It is used to find....

\_\_\_\_\_

If the Discriminant is Positive then

\_\_\_\_\_

If the Discriminant is Negative then

\_\_\_\_\_

If the Discriminant is Zero then

\_\_\_\_\_