

## Practice Assignment #11

**Factor each completely.**

1)  $16k^2 - 9$

$(4k + 3)(4k - 3)$

2)  $m^2 + 2m + 1$

$(m + 1)^2$

3)  $4n^2 + 12n + 9$

$(2n + 3)^2$

4)  $4x^2 + 20x + 25$

$(2x + 5)^2$

5)  $x^2 + 10x + 25$

$(x + 5)^2$

6)  $9m^2 - 25$

$(3m + 5)(3m - 5)$

7)  $9b^2 - 24b + 16$

$(3b - 4)^2$

8)  $a^2 - 1$

$(a + 1)(a - 1)$

9)  $4a^2 - 25$

$(2a + 5)(2a - 5)$

10)  $9m^2 - 12m + 4$

$(3m - 2)^2$

$$11) 25x^2 - 16$$
$$(5x + 4)(5x - 4)$$

$$12) b^2 - 25$$
$$(b + 5)(b - 5)$$

$$13) 25v^2 - 40v + 16$$
$$(5v - 4)^2$$

$$14) 4x^2 - 12x + 9$$
$$(2x - 3)^2$$

$$15) n^2 - 6n + 9$$
$$(n - 3)^2$$

$$16) 4a^4 - 25$$
$$(2a^2 + 5)(2a^2 - 5)$$

$$17) 25p^4 - 16$$
$$(5p^2 + 4)(5p^2 - 4)$$

$$18) x^4 - 9$$
$$(x^2 + 3)(x^2 - 3)$$

$$19) 16a^4 - 9$$
$$(4a^2 + 3)(4a^2 - 3)$$

$$20) n^4 - 4$$
$$(n^2 + 2)(n^2 - 2)$$