

1/16/13

Difference of Squares.

Factor

Ex

1

$$x^2 - 9$$

$$(x)(x) - (3)(3)$$

$$(x + 3)(x - 3)$$

2

$$x^2 - 49$$

$$(x)(x) - (7)(7)$$

$$(x + 7)(x - 7)$$

3

$$16x^2 - 36$$

$$(4x)(4x) - (6)(6)$$

$$(4x + 6)(4x - 6)$$

4

$$m^4 - 16$$

$$(m^2)(m^2) - (4)(4)$$

$$(m^2 + 4)(m^2 - 4)$$

5

$$y^6 - 4$$

$$(y^3)(y^3) - (2)(2)$$

$$(y^3 + 2)(y^3 - 2)$$