Study 6.5 # 1-17, 41, 45-55, 59, 61, 63, 69

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#### 6.5 Factoring Special Binomials

# **Previous Multiplication**

$$(x + 1)(x - 1)$$
  $(2x + 3)(2x - 3)$ 

F O I L

 $x(x) + x(-1) + 1x + 1(-1)$   $2x(2x) + 2x(-3) + 2x(3) + 3(-3)$ 
 $x^2 - x + x - 1$   $4x^2 - 6x + 6x - 9$ 
 $x^2 - 1$   $4x^2 - 9$ 

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# **Previous Multiplication**

(a + b)(a - b)

F O I L

a(a) + a(-b) + a(b) + b(-b)

$$a^2 - ab + ab - b^2$$

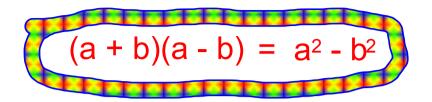
$$(a + b)(a - b) = a^2 - b^2$$

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

$$(2x + 3)(2x - 3) =$$

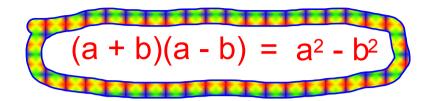
$$(x + y)(x - y) =$$

$$(3x + 2y)(3x - 2y) =$$

$$(5r + 3)(5r - 3) =$$

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

$$x^2 - 9$$

$$(2x + 3)(2x - 3) =$$

$$4x^2 - 9$$

$$(x + y)(x - y) =$$

$$x^2 - y^2$$

$$(3x + 2y)(3x - 2y) =$$

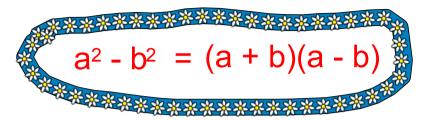
$$9x^2 - 4y^2$$

$$(5r + 3)(5r - 3) =$$

$$25r^2 - 9$$

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$$x^2 - 9$$

$$4x^2 - 9$$

$$x^2 - y^2$$

$$9x^2 - 4y^2$$

$$25r^2 - 9$$

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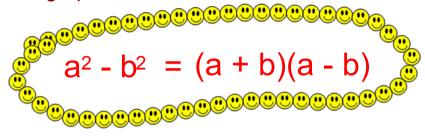


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Factoring Special Binomials April 29, 2013

### 6.5 Factoring Special Binomials



$$t^2 - 9$$

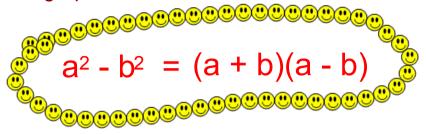
$$45x^2 - 20$$

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