

5-10 Multiplying Binomials: Special Products

Multiply.

$$(r + 2)(r - 2)$$

$$r^2 - \cancel{2r} + \cancel{2r} - 4$$

$$r^2 - 4$$

$$(ab + c)(ab - c)$$

$$a^2b^2 - c^2$$

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

$$4x^2 - \cancel{6x} + \cancel{6x} - 9$$

$$4x^2 - 9$$

$$(-3x + 4y)(-3x - 4y)$$

$$9x^2 - 16y^2$$

Multiply

$$(x+5)^2$$
$$(x+5)(x+5)$$

$$x^2 + 5x + 5x + 25$$

$$x^2 + 10x + 25$$

$$(x-3)^2$$
$$(x-3)(x-3)$$

$$x^2 - 3x - 3x + 9$$

$$x^2 - 6x + 9$$

$$(2a-3b)^2$$

$$(2a-3b)(2a-3b)$$

$$4a^2 - 6ab - 6ab + 9b^2$$

$$4a^2 - 12ab + 9b^2$$