Ch4.6 Special Products.

Square of a Binomial

The square of a binomial is a trinomial consisting of

the square of the first term + twice the product of the two terms + the square of the last term.

For x and y, the following hold.

$$(x + y)^2 = x^2 + 2xy + y^2$$

$$(x - y)^2 = x^2 - 2xy + y^2$$

Product of a Sum and Difference of Two Terms

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

Ex1) Multiply.

a)
$$(m+3)^2$$

b)
$$(a-4)^2$$

Preview from Notesale. Preview page 1 of 2 page 1 of 2 e) $x(4x-3)^2$

d)
$$(4m - \frac{1}{2})^2$$

e)
$$x(4x-3)^2$$

Ex2) Multiply.

a)
$$(x+4)(x-4)$$

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

c)
$$(x-\frac{1}{4})(x+\frac{1}{4})$$