Concept B2103) Difference of Two Squares

Similar to perfect squares, expanding the difference of two squares involve using the distributive law.

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

Example 1

a. Expand (x+2)(x-2).



b. Expand (2x - 3y)(2x + 3y).

Try It Yourself!

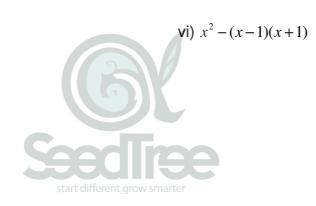
i)
$$(x+5)(x-5)$$

ii)
$$(x+12)(x-12)$$

iii)
$$(2-x)(2+x)$$

iv)
$$(7x-4y)(7x+4y)$$

$$V) (11a-b)(11a+b)$$



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

viii)
$$3(4x-1)^2 - (4x-1)(4x+1)$$

ANSWERS (Try It Yourself!)

i)
$$x^2 - 25$$

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 ii) $x^2 - 144$ iii) $-x^2 + 4$

iii)
$$-x^2+4$$

iv)
$$49x^2 - 16y^2$$

v)
$$121a^2 - b^2$$
 vi) 1

vii)
$$2x^2 - 3y^2$$

viii)
$$32x^2 - 24x + 4$$