

Formule de calcul prescurtat

$(a + b)^2 = a^2 + 2ab + b^2$	$(x + 1)^2 = x^2 + 2x + 1$
	$(2a + 3)^2 = (2a)^2 + 2 \cdot 2a \cdot 3 + 3^2 =$ $= 4a^2 + 12a + 9$
$(a - b)^2 = a^2 - 2ab + b^2$	$(x - 1)^2 = x^2 - 2x + 1$
	$(a - 5b)^2 = a^2 - 2 \cdot a \cdot 5b + (5b)^2 =$ $= a^2 - 10ab + 25b^2$
$a^2 - b^2 = (a - b)(a + b)$	$x^2 - 1 = (x - 1)(x + 1)$
	$(3x - 2)(3x + 2) = (3x)^2 - 2^2 = 9x^2 - 4$
$(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ac$	$(x + 2y + 3z)^2 = x^2 + (2y)^2 + (3z)^2 +$ $+ 2 \cdot x \cdot 2y + 2 \cdot 2y \cdot 3z + 2 \cdot x \cdot 3z =$ $= x^2 + 4y^2 + 9z^2 + 4xy + 12yz + 6xz$
	$(x - 1 + y)^2 = x^2 + 1 + y^2 - 2x - 2y + 2xy$
$(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$	$(x + 1)^3 = x^3 + 3x^2 + 3x + 1$
	$(2a + 3)^3 = 8a^3 + 36a^2 + 54a + 27$
$(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$	$(x - 1)^3 = x^3 - 3x^2 + 3x - 1$
$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$	$x^3 - 1 = (x - 1)(x^2 + x + 1)$
	$a^3 - 8 = (a - 2)(a^2 + 2a + 4)$
$a^3 + b^3 = (a + b)(a^2 - ab + b^2)$	$x^3 + 1 = (x + 1)(x^2 - x + 1)$
	$(x + y)(x^2 - xy + y^2) = x^3 + y^3$
$(a + b + c)^3 = a^3 + b^3 + c^3 + 3(a + b)(b + c)(c + a)$	
$a^4 - b^4 = (a^2 - b^2)(a^2 + b^2)$	$x^4 - 1 = (x^2 - 1)(x^2 + 1)$
$a^4 - b^4 = (a - b)(a^3 + a^2b + ab^2 + b^3)$	