

FORMULE DE CALCUL PRESCURTAT



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

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

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

$$(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ac$$

$$(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$

$$(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$$

$$(a-b)(a^2 + ab + b^2) = a^3 - b^3$$

$$(a+b)(a^2 - ab + b^2) = a^3 + b^3$$

$$(a+b)^4 = [(a+b)^2]^2$$

$$(a-b)^4 = [(a-b)^2]^2$$

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

$$(a^2 + \sqrt{2}ab + b^2)(a^2 - \sqrt{2}ab + b^2) = a^4 + b^4$$

$$(a-b)(a^{n-1} + a^{n-2}b + a^{n-3}b^2 + \dots + ab^{n-2} + b^{n-1}) = a^n - b^n$$

