

## CONTROLE DE MATHS BAC PRO n°1

2 points par équation

$$1^\circ / x^2 - 4x + 4 = 0 \quad 2^\circ / 2x^2 - 7x + 3 = 0 \quad 3^\circ / -x^2 - x + 12 = 0 \quad 4^\circ / x^2 + 8x + 15 = 0$$

$$5^\circ / x^2 + 6x + 10 = 0 \quad 6^\circ / x^2 - 36 = 0 \quad 7^\circ / -2x^2 + x + 6 = 0 \quad 8^\circ / 2x^2 - 5x - 3 = 0$$

$$9^\circ / x^2 - 5x + 4 = 0 \quad 10^\circ / 10x^2 - 22x + 4 = 0$$

## CORRECTION DU CONTROLE 1 BAC PRO n°1

$1^\circ / \Delta = 4^2 - 4 \times 1 \times 4 = 0$	$\Delta = 0$	1 solution : $x = \frac{4}{2} = 2$
$2^\circ / \Delta = 7^2 - 4 \times 2 \times 3 = 25$	$\Delta > 0$	2 solutions : $x_1 = \frac{7-5}{4} = 0,5$ $x_2 = \frac{7+5}{4} = 3$
$3^\circ / \Delta = 1^2 - 4 \times (-1) \times 12 = 49$	$\Delta > 0$	2 solutions : $x_1 = \frac{1-7}{-2} = 3$ $x_2 = \frac{1+7}{-2} = -4$
$4^\circ / \Delta = 8^2 - 4 \times 1 \times 15 = 4$	$\Delta > 0$	2 solutions : $x_1 = \frac{-8-2}{2} = -5$ $x_2 = \frac{-8+2}{2} = -3$
$5^\circ / \Delta = 6^2 - 4 \times 1 \times 10 = -4$	$\Delta < 0$	pas de solution
$6^\circ / x^2 = 36$ donc		2 solutions : $x = 6$ et $x = -6$
$7^\circ / \Delta = 1^2 - 4 \times (-2) \times 6 = 49$	$\Delta > 0$	2 solutions : $x_1 = \frac{-1-7}{-4} = 2$ $x_2 = \frac{-1+7}{-4} = -1,5$
$8^\circ / \Delta = (-5)^2 - 4 \times 2 \times (-3) = 49$	$\Delta > 0$	2 solutions : $x_1 = \frac{5-1}{4} = 1$ et $x_2 = \frac{5+1}{4} = 1,5$
$9^\circ / \Delta = (-5)^2 - 4 \times 4 = 9$	$\Delta > 0$	2 solutions : $x = \frac{5-3}{2} = 1$ et $x = \frac{5+3}{2} = 4$
$10^\circ / \Delta = 22^2 - 4 \times 10 \times 4 = 324$	$\Delta > 0$	2 solutions : $x_1 = \frac{22-18}{-20} = -\frac{4}{20} = -0,2$ $x_2 = \frac{22+18}{20} = 2$