

$$\frac{x^2}{4-x} + \frac{3x}{8x-16-x^2} \leq 0$$

$$\frac{-x^2}{x-4} + \frac{3x}{(x-4)(4-x)} \leq 0$$

$$\frac{-x^2(4-x) + 3x}{(x-4)(4-x)} \leq 0$$

$$\frac{-4x^2 + x^3 + 3x}{(x-4)(4-x)} \leq 0$$

$$\frac{x^3 - 4x^2 + 3x}{(x-4)(4-x)} \leq 0$$

$$\frac{x(x^2 - 4x + 3)}{(x-4)(4-x)} \leq 0$$

$$x = 0$$

$$x^2 - 4x + 3 = 0; \Delta = 4; x_{1,2} = \begin{cases} \frac{4-2}{2} = 1 \\ \frac{4+2}{2} = 3 \end{cases}$$

$$x-4=0 \Rightarrow x=4$$

$$-x^2 + 4x + 4x - 16$$

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

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

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

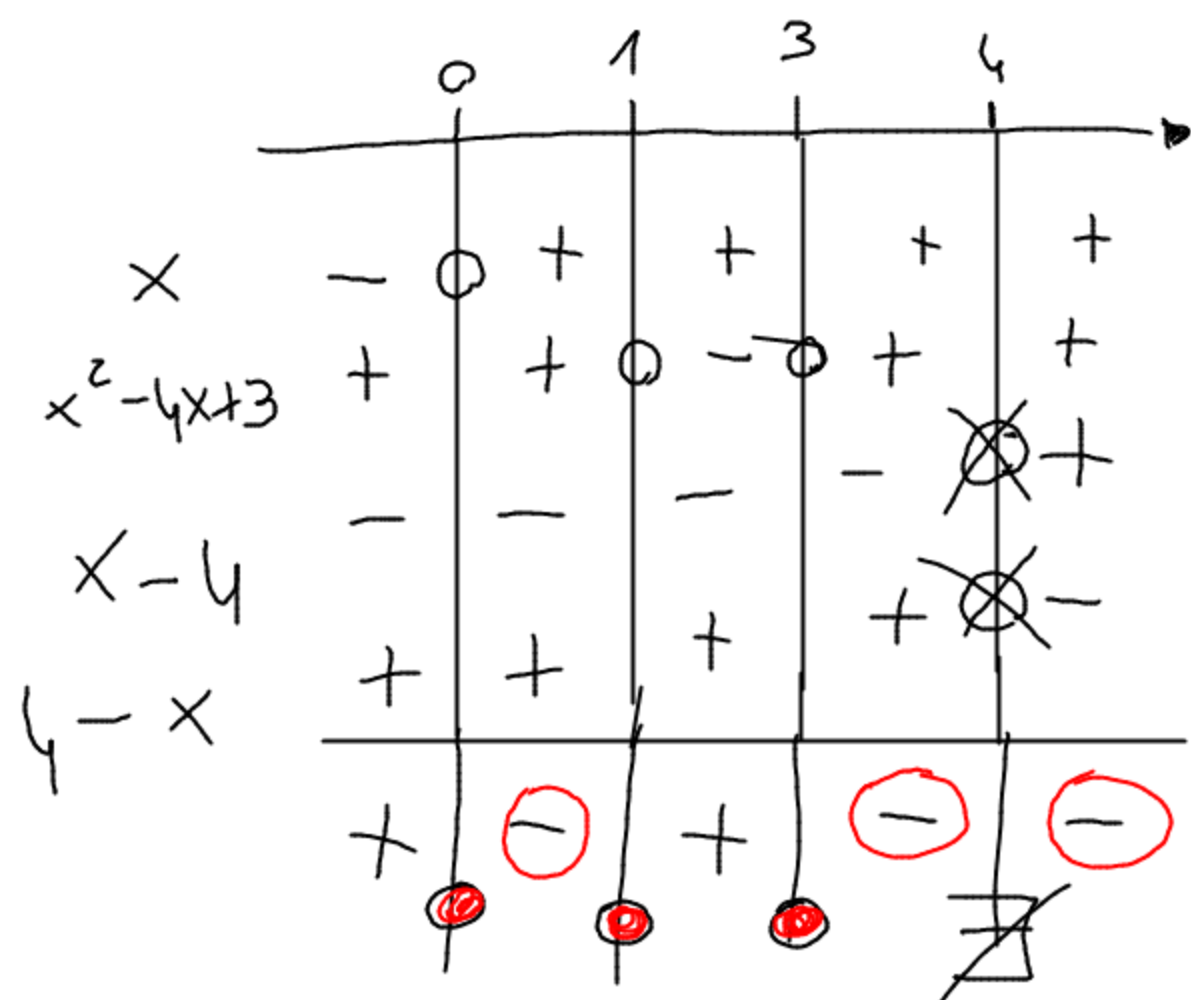
2° METODO PER SCOMPORRE

$$8x - 16 - x^2$$

$$-(-8x + 16 + x^2)$$

$$-(x^2 - 8x + 16)$$

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



$$0 \leq x \leq 1 \vee 3 \leq x < 4 \vee x > 4$$

$$[0; 1] \vee [3; 4[\vee]4; +\infty[$$