

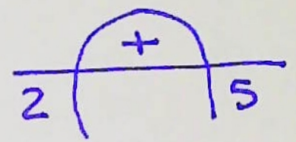
DOMINIO della FUNZIONE

$$y = \sqrt{7x - x^2 - 10} + \sqrt[5]{\frac{x^2 + 2x - 3}{x^2 - x - 12}} \quad (2)$$

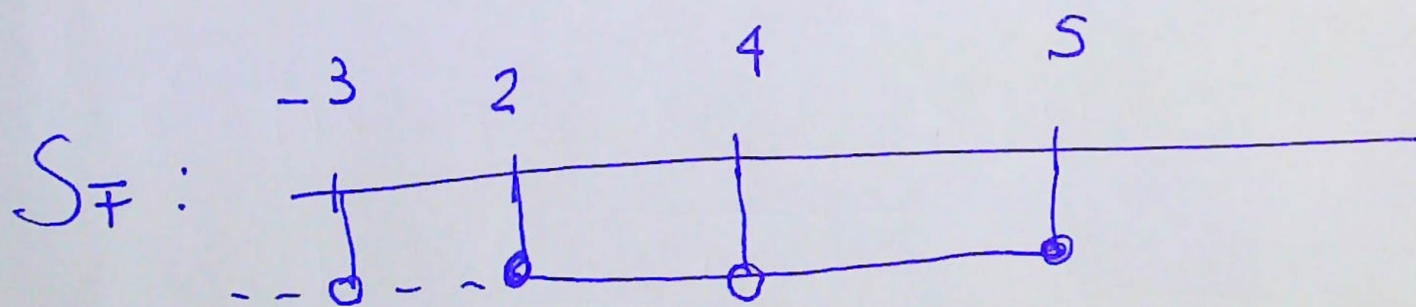
$$\begin{cases} (1) \quad 7x - x^2 - 10 \geq 0 \\ (2) \quad x^2 - x - 12 \neq 0 \end{cases} \quad \begin{cases} 2 \leq x \leq 5 \\ x \neq 4 \wedge x \neq -3 \end{cases}$$

$$(1) \quad -x^2 + 7x - 10 \geq 0 \quad x^2 - 7x + 10 = 0 \quad x_{1,2} = \frac{7 \pm \sqrt{49 - 40}}{2} = \begin{matrix} 5 \\ 2 \end{matrix}$$

$$2 \leq x \leq 5$$



$$(2) \quad x^2 - x - 12 \neq 0 \quad x_{1,2} = \frac{1 \pm \sqrt{1 + 48}}{2} = \frac{1 \pm 7}{2} = \begin{matrix} 4 \\ -3 \end{matrix} \quad \begin{matrix} x \neq 4 \\ x \neq -3 \end{matrix}$$



$$S_F: [2, 4) \cup (4, 5]$$