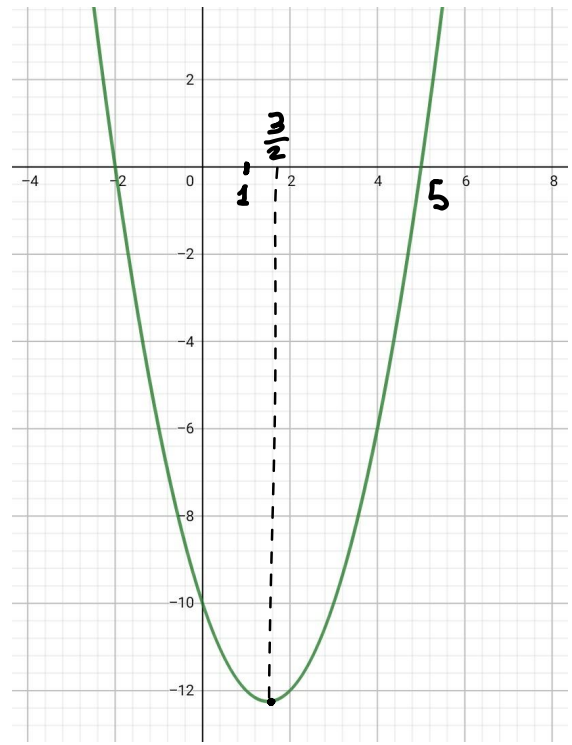**164** $y = x^2 - 3x - 10$

ASCISSA DEL
VERTICE $-\dfrac{b}{2a} = \dfrac{3}{2}$

DECRESCE IN $\left(-\infty, \dfrac{3}{2}\right)$
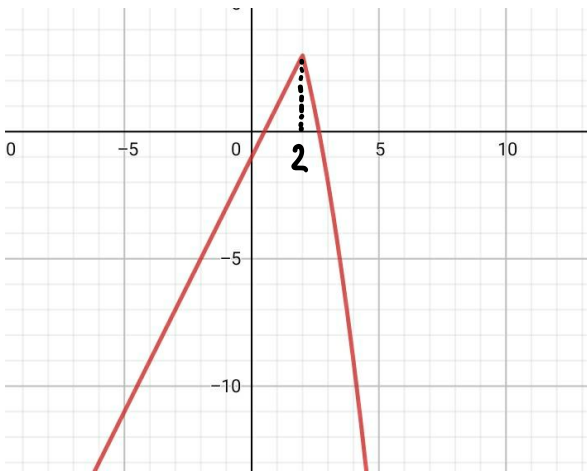
CRESCE IN $\left(\dfrac{3}{2}, +\infty\right)$

165 $y = \begin{cases} 2x - 1 & \text{se } x \le 2 \\ 7 - x^2 & \text{se } x > 2 \end{cases}$

COMANDO   GEOGEBRA
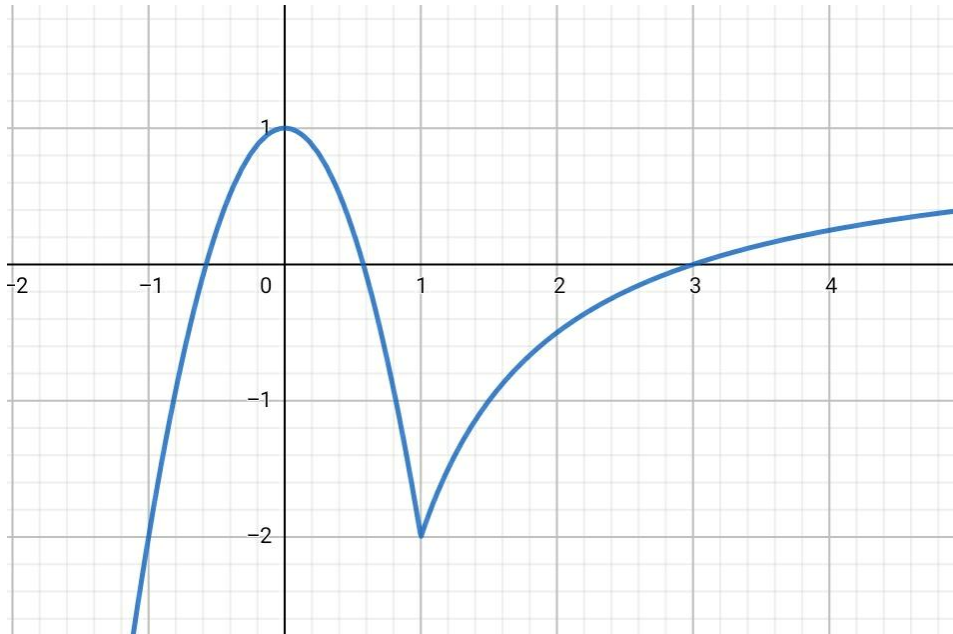
$f(x) = \text{Se}\left(x \le 2, 2x - 1, x > 2, 7 - x^2\right)$

CRESCE IN $\left(-\infty, 2\right)$

DECRESCE IN $\left(2, +\infty\right)$

166 $y = \begin{cases} 1 - 3x^2 & \text{se } x \leq 1 \\ \dfrac{x-3}{x} & \text{se } x > 1 \end{cases}$ $g(x) = \text{Se}\left(x \leq 1, 1 - 3x^2, x > 1, \dfrac{x-3}{x}\right)$

CRESCENTE IN $(-\infty, 0)$ CRESCENTE $(1, +\infty)$

DECRESCENTE IN $(0, 1)$

167 $y = \begin{cases} x^2 + 5 & \text{se } x \leq 0 \\ 5 - \sqrt{x} & \text{se } 0 < x \leq 3 \\ 2x - 4 & \text{se } x > 3 \end{cases}$

DECRESCENTE $(-\infty, 3]$

CRESCENTE $(3, +\infty)$