

Per tant

$(-\infty, 2) \cup (3, +\infty)$ $f'(x) > 0$ creixent

$(-1, 3) \rightarrow f'(x) < 0$ Decent.

Màx i Mìn.

$$f'(x) = 0 \rightarrow \begin{matrix} x_1 = -1 \\ x_2 = 3 \end{matrix}$$

$$f(x) = 3x^2 - 6x - 9 \quad f''(x) = 6x - 6$$

$$\text{En } x_1 = -1 \quad f''(-1) = 6 \cdot (-1) - 6 = -6 - 6 = -12$$

$$f''(-1) < 0 \quad (\ominus) \quad \text{Màx en } x = -1$$

$$\text{En } x_2 = 3 \quad f''(3) = 6 \cdot (3) - 6 = 18 - 6 = 12$$

$$f''(3) > 0 \quad (\oplus) \quad \text{Mìn en } x = 3$$