

$$f(x) = (x^2 - a) \cdot e^x + bx$$

$$f'(x) = 2xe^x + (x^2 - a) \cdot e^x + b = (x^2 + 2x - a) \cdot e^x + b$$

$$f''(x) = (2x + 2) \cdot e^x + (x^2 + 2x - a) \cdot e^x = (x^2 + 4x + 2 - a) \cdot e^x$$

$$\left. \begin{array}{l} \text{i) } f''(0) = 0 \\ \text{ii) } f'(1) = 0 \end{array} \right\} \text{CONDICIONES QUE SE DEBEN CUMPLIR}$$

$$f''(0) = 0 \longrightarrow 2 - a = 0 \Rightarrow \boxed{a = 2}$$

$$f'(1) = 0 \longrightarrow (1 + \overbrace{2}^0 - \underbrace{2}_a) \cdot e^1 + b = 0 \Rightarrow \boxed{b = -e}$$

LAS CONDICIONES SE CUMPLEN CUANDO $a = 2$ y $b = -e$.