

CONDICIÓN

$$2x + 2y - 20 = 100 \rightarrow 2x + 2y = 120 \rightarrow x + y = 60$$

FUNCIÓN

$$A(x, y) = xy \rightarrow A(x) = x \cdot (60 - x)$$

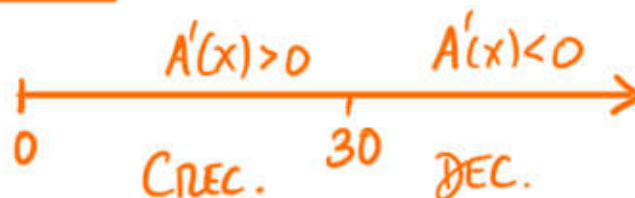
$$y = 60 - x$$

$$A(x) = 60x - x^2 \rightarrow A'(x) = 60 - 2x \rightarrow 60 - 2x = 0$$

$$\begin{aligned} &\downarrow 60 = 2x \\ &x = 30 \end{aligned}$$

$$\begin{aligned} &\downarrow \\ &y = 30 \end{aligned}$$

MONOTONÍA



$x = 30$ Máximo

EL TERRENO TIENE 30 m DE LARGO Y 30 m DE ANCHO. $\text{ÁREA} = 900 \text{ m}^2$