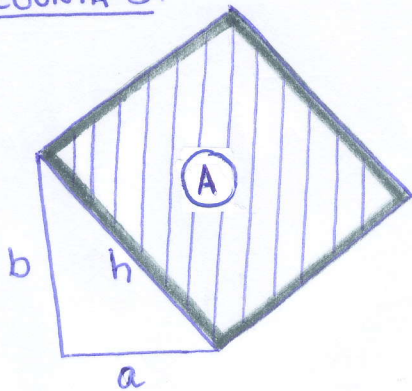


PREGUNTA 5:



$$a+b=12 \Rightarrow b=12-a$$

$$A(a,b) = h^2 = a^2 + b^2 \quad (\text{TH. PITÁGORAS})$$

$$\begin{aligned} A(a) &= a^2 + (12-a)^2 = a^2 + 144 + a^2 - 24a = \\ &= 2a^2 - 24a + 144 \end{aligned}$$

$$A'(a) = 4a - 24$$

$$A'(a) = 0 \Leftrightarrow 4a - 24 = 0 \Rightarrow a = 6$$

$$A''(a) = 4 > 0 \Rightarrow A''(6) \text{ MÍNIMA} \checkmark$$