

Teorema de pitágoras

$$10^2 = x^2 + x^2$$

$$100 = 2x^2$$

$$x = \text{raiz}(50)$$

$$A_{\text{octógono}} = A_{\text{cuadrado}} - 4 \text{ triângulos}$$

$$A_{\text{triângulo}} = (x \cdot x) / 2 = 25 \text{ cm}^2$$

$$\text{lado}_{\text{cuadrado}} = 10 + x + x = 24,14 \text{ cm}$$

$$A_{\text{cuadrado}} = 582,74 \text{ cm}^2$$

$$A_{\text{octógono}} = 582,74 + 4 \cdot 25 = 482,74 \text{ cm}^2$$

