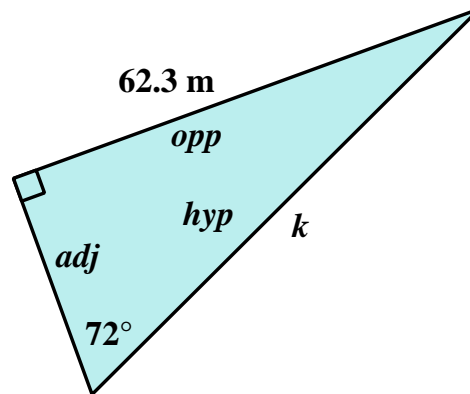


Answer 5

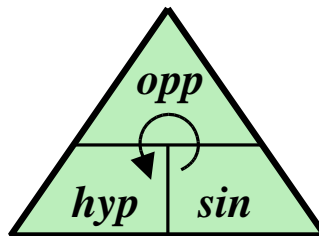
(i)



(ii) SOH CAH TOA

(iii) SOH CXH TOX

(iv)



(v)

$$\text{hyp} = \frac{\text{opp}}{\sin 72}$$

$$k = \left(\frac{62.3}{0.951} \right)$$

$$k = 65.5 \text{ cm}$$

(vi)

$$\begin{aligned} \text{adj}^2 &= \text{hyp}^2 - \text{opp}^2 \\ &= 65.5^2 - 62.3^2 \\ &= 4291.0 - 3881.3 \\ &= 409.7 \end{aligned}$$

$$\therefore \text{adj} = 20.2 \text{ cm}$$

(vii)

$$\begin{aligned} P &= 65.5 + 62.3 + 20.2 \\ &= 148.0 \text{ cm} \end{aligned}$$