

A = Skull
 B = Tree
 C = Treasure

$$\angle B = 90^\circ \rightarrow 77^\circ + 13^\circ$$

$$\angle C = \tan C = \frac{270}{617}$$

$$\angle C = \tan^{-1}\left(\frac{270}{617}\right)$$

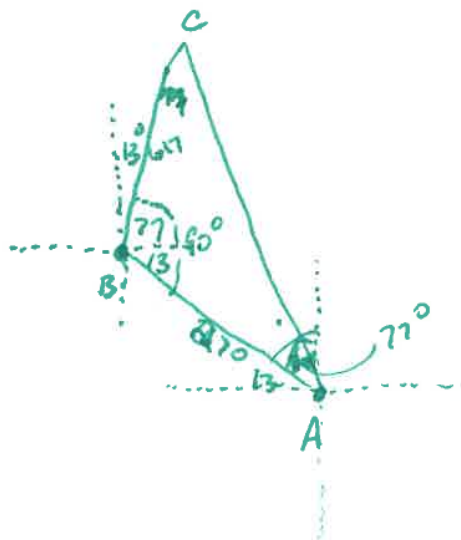
$$\angle A = 66.37^\circ$$

$$\angle C = 23.63^\circ$$

$$AC^2 = 270^2 + 617^2$$

$$AC^2 = 453,589$$

$$AC = 673 \text{ ft}$$



Distance from Treasure to skull

Treasure is at a bearing of $N 10.63^\circ W$ from the skull

$$90 - 13 - 66.37 = 10.63^\circ$$