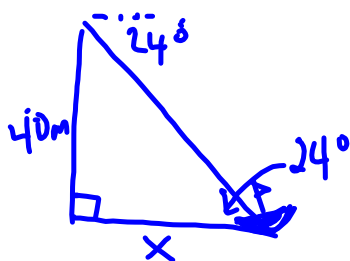


Angle of depression equals the angle of elevation (AIA)

Homework

9.



The boat is 89.84m
from the base of the
cliff.

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$\tan 24^\circ = \frac{40}{x}$$

$$x \tan 24^\circ = 40$$

$$x = \frac{40}{\tan 24^\circ}$$
$$= 89.84 \text{ m}$$