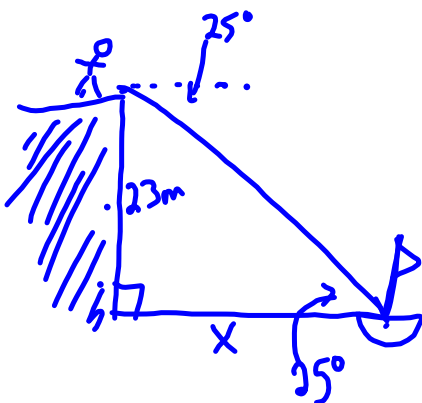


Warm up

Nov 14

1. Billy was standing on a cliff watching a boat out on the bay. The angle of depression from the top of the cliff (23 m above sea level) to the boat was 25° . Find out how far the boat is from the base of the cliff.



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

$$\tan 25^\circ = \frac{23}{x}$$

$$x \tan 25^\circ = 23$$

$$x = \frac{23}{\tan 25}$$

$$= 49.3\text{m}$$

The boat is 49.3m from the base of the cliff.

Homework...

Worksheet...

Angle of depression / elevation