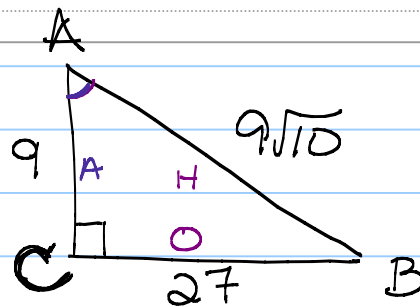


Review

SOH  
CAH  
TOA



$$9(1, 3 \frac{\sqrt{10}}{1})$$

$$\sqrt{1^2 + 3^2} = 10$$

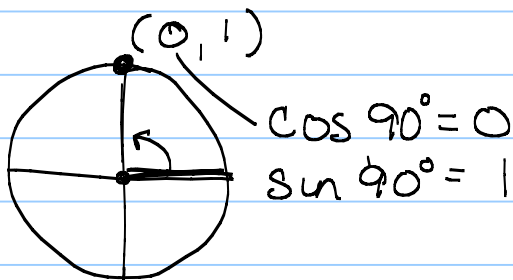
$$\sin A = \frac{3}{9\sqrt{10}} \left( \frac{\sqrt{10}}{\sqrt{10}} \right) = \frac{3\sqrt{10}}{10}$$

$$\cos A = \frac{27}{9\sqrt{10}} \left( \frac{\sqrt{10}}{\sqrt{10}} \right) = \frac{3\sqrt{10}}{10}$$

$$\tan A = \frac{27}{9} = 3 \longleftrightarrow \tan B = \frac{1}{3}$$

$$\sin B = \frac{\sqrt{10}}{10}$$

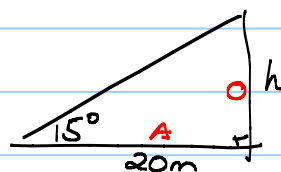
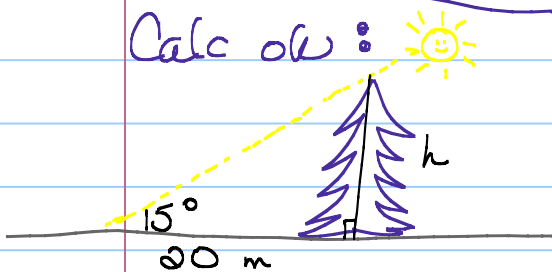
$$\cos B = \frac{3\sqrt{10}}{10}$$



Find  $\cos 45^\circ = \frac{x}{x\sqrt{2}} = \frac{\sqrt{2}}{2}$

Find  $\tan 60^\circ = \frac{x\sqrt{3}}{x} = \sqrt{3}$

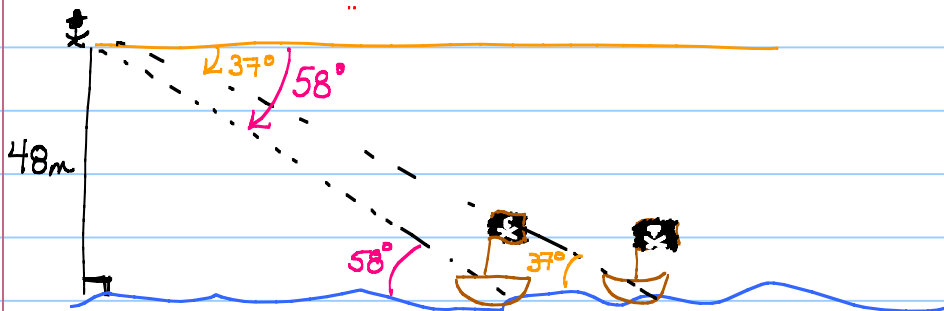
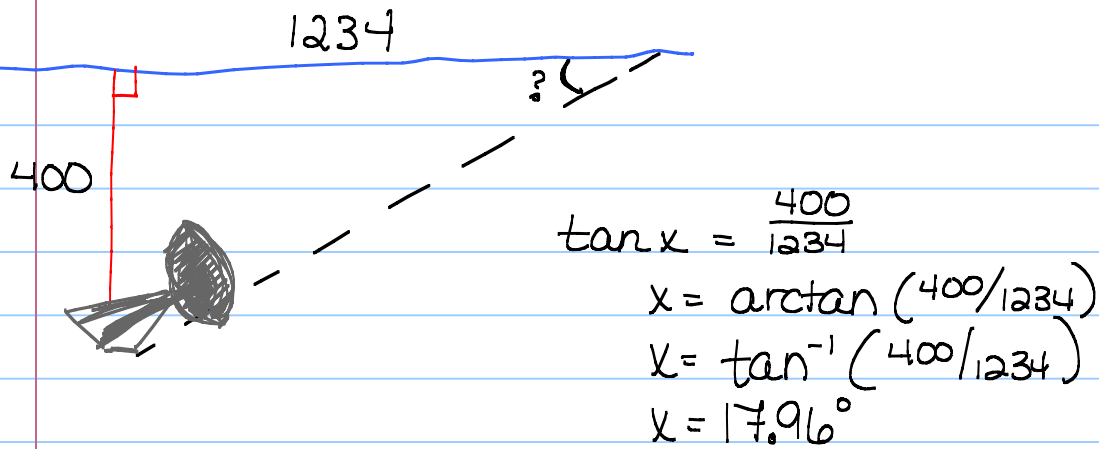
Calc ok :



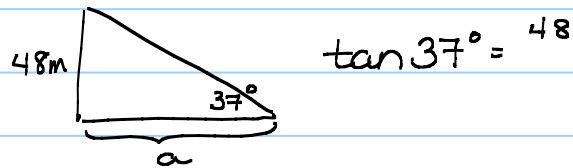
$$\tan 15^\circ = \frac{h}{20}$$

$$20 (\tan 15) = h$$

$$5.36 \text{ m} = h$$



$37^\circ$  &  $58^\circ$



Homework: Complete the ASN for 10.1 & 10.2

Finish the problem: Dora the Explorer stood on a cliff 48 m above the sea, and saw two ships. The angles of depression to the ships were 37 and 58 degrees. Find -- to the nearest foot -- the distance between the ships. Draw a diagram. Show all work.