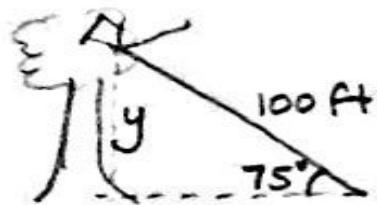


(4)



The tree is  
about 96.59 ft  
tall.

$$\sin 75 = \frac{y}{100}$$

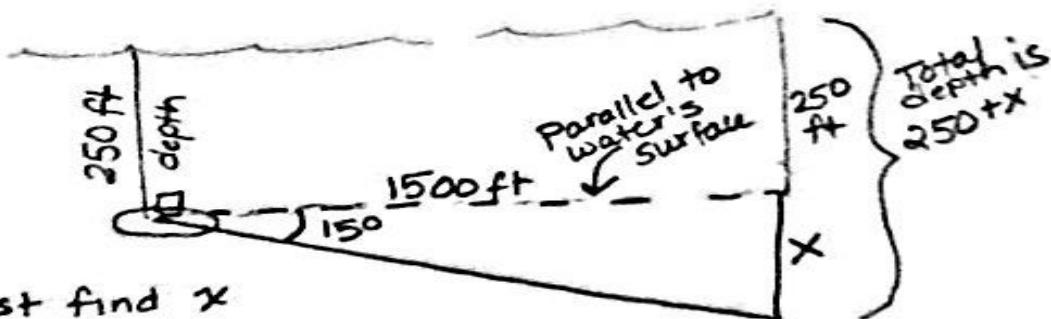
$$100 \cdot \sin 75 = \frac{y}{100} \cdot 100$$

$$100 \sin 75 = y$$

$$96.59 \approx y$$

(5) This problem was worded badly  
so please skip it.

(6)



First find x

$$\tan 15 = \frac{x}{1500}$$

$$1500 \tan 15 = \frac{x}{1500}$$

$$1500 \tan 15 = x$$

Total Depth of  
Submersible

$$TD = 1500 \tan 15 + 250 \\ \approx 651.92 \text{ feet}$$

\* Notice ND  
rounded # in the middle of a problem