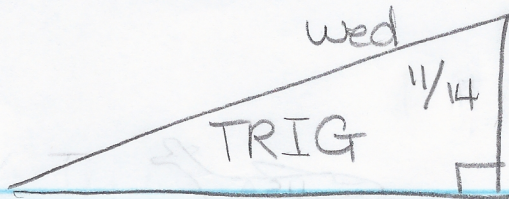
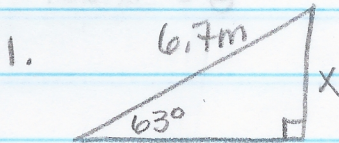


Adv.



p. 6



$$\sin 63^\circ = \frac{x}{6.7}$$

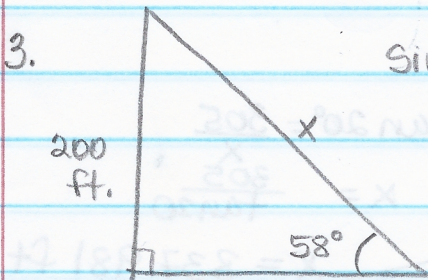
$$6.7 \sin 63^\circ = x$$

$$x = 5.970 \text{ m}$$



$$\sin \theta = \frac{6.5}{6.7}$$

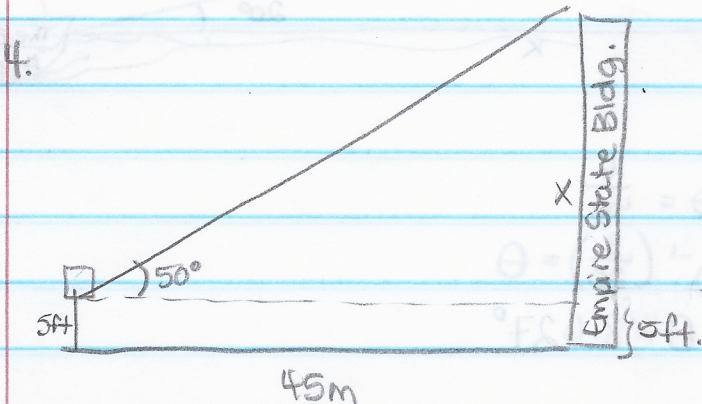
$$\theta = 75.965^\circ$$



$$\sin 58^\circ = \frac{200}{x}$$

$$x = \frac{200}{\sin 58^\circ}$$

$$x = 169.610 \text{ ft.}$$



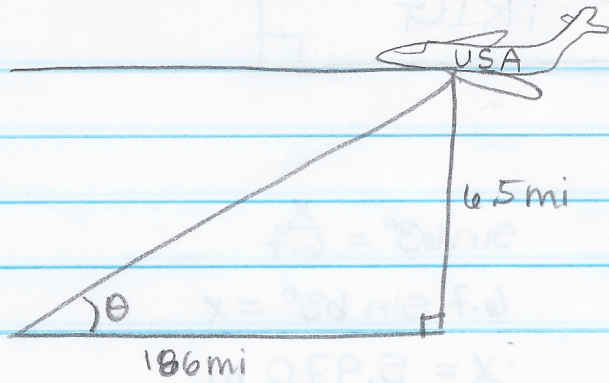
$$\tan 50^\circ = \frac{x}{45}$$

$$45 \tan 50^\circ = x$$

$$x = 53.629$$

$$\text{ESB} = 58.629 \text{ m}$$

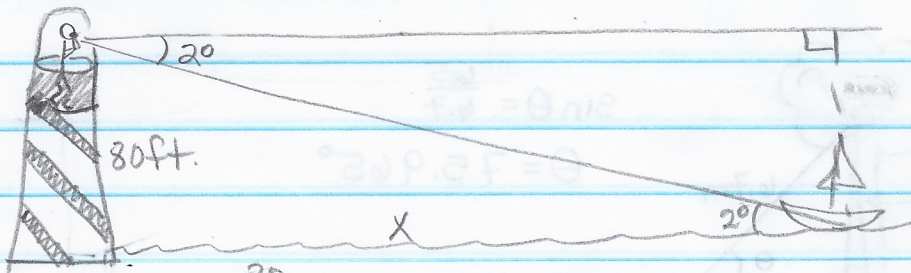
6.



$$\tan \theta = \frac{6.5}{186}$$

$$\theta = 2.001^\circ$$

7.



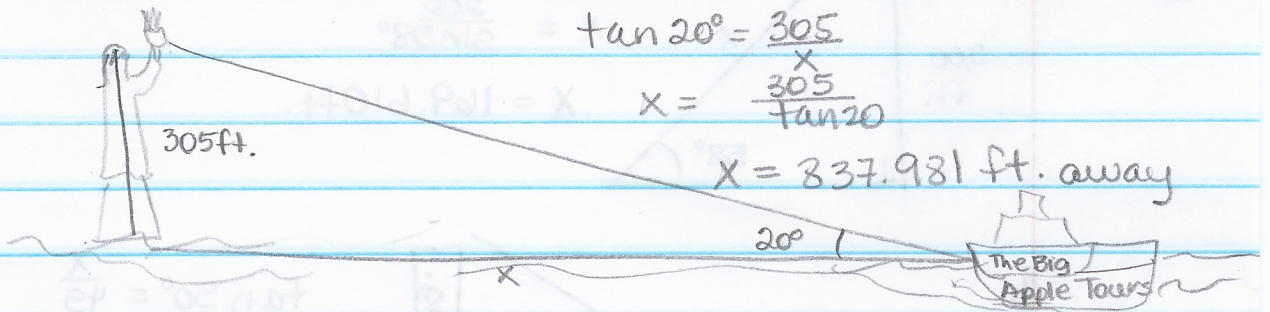
$$\tan 2^\circ = \frac{80}{x}$$

$$x = 2290.900 \text{ ft.}$$

$$\frac{1}{\tan 2^\circ} = \frac{x}{80}$$

$$\frac{80}{\tan 2^\circ} = x$$

8.

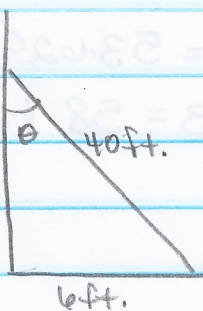


$$\tan 20^\circ = \frac{305}{x}$$

$$x = \frac{305}{\tan 20^\circ}$$

$$x = 837.981 \text{ ft. away}$$

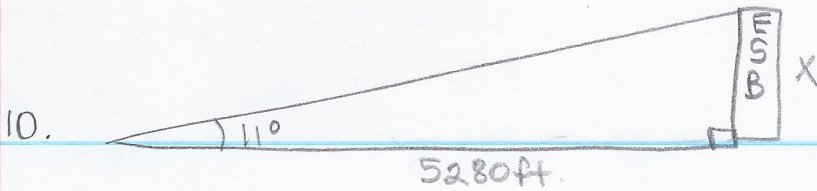
9.



$$\sin \theta = \frac{6}{40}$$

$$\sin^{-1}\left(\frac{6}{40}\right) = \theta$$

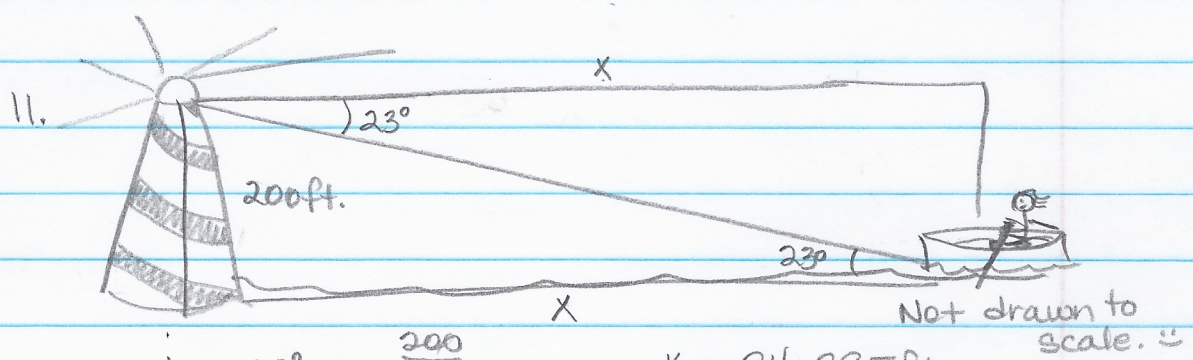
$$\theta = 8.627^\circ$$



$$\tan 11^\circ = \frac{x}{5280}$$

$$5280 \tan 11 = x$$

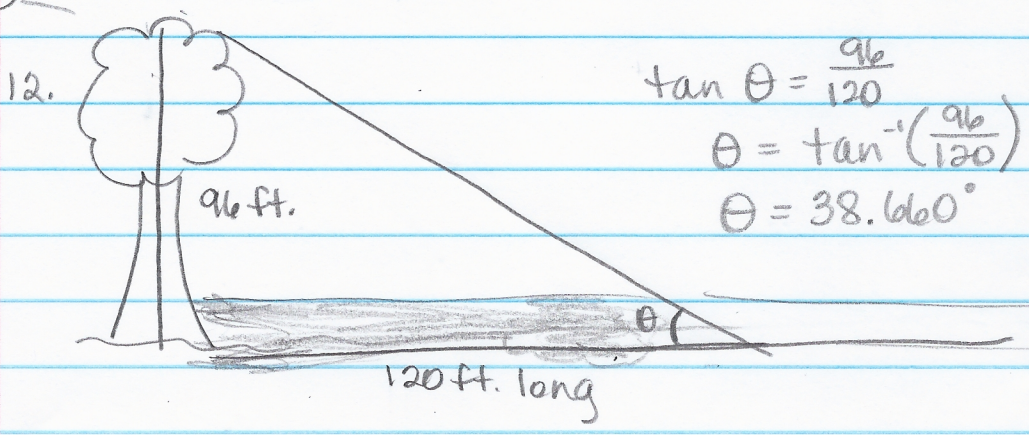
$$x \approx 1026.328 \text{ ft.}$$



$$\tan 23^\circ = \frac{200}{x}$$

$$x = \frac{200}{\tan 23^\circ}$$

$$x = 84.895 \text{ ft.}$$



$$\tan \theta = \frac{96}{120}$$

$$\theta = \tan^{-1}\left(\frac{96}{120}\right)$$

$$\theta = 38.660^\circ$$