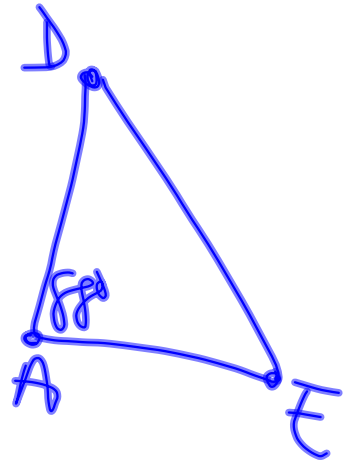


11c) 1.4 p.27 #9



$$a) \frac{550}{\sin 88^\circ} = \frac{400}{\sin D}$$

$$\frac{\sin 88^\circ}{550} = \frac{\sin D}{400}$$

$$\frac{400(\sin 88^\circ)}{550} = \sin D$$

$$\sin^{-1}(0.7268111) = D$$

$$D = 46.6^\circ$$



$$\angle E = 180^\circ - 88^\circ - 46.6^\circ$$

$$\angle E = 45.4^\circ$$

$$\frac{e}{\sin 45.4} = \frac{550}{\sin 88}$$

$$e = \frac{550 \sin 45.4}{\sin 88^\circ}$$

$$e = 391.853...$$

$$e = 391.9 \text{ ft}$$

391.9 ft