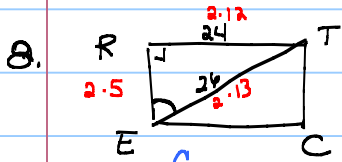
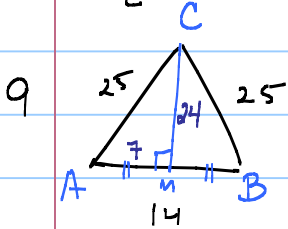


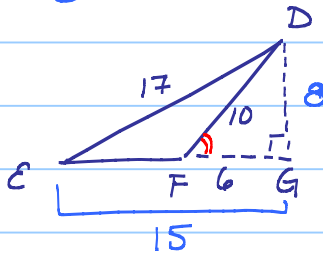
$$7c. \tan \angle B = \frac{O}{A} = \frac{5}{2\sqrt{6}} \cdot \frac{\sqrt{6}}{\sqrt{6}} = \frac{5\sqrt{6}}{12}$$



$$b. \cos \angle RET = \frac{A}{H} = \frac{5}{13}$$

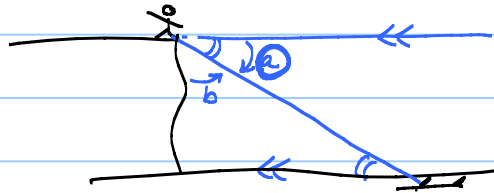
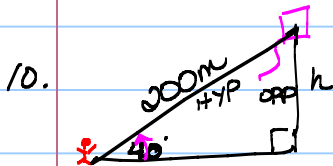


$$\cos \angle A = \frac{A}{H} = \frac{7}{25}$$



$$\sin \angle E = \frac{O}{H} = \frac{8}{17}$$

$$\sin \angle DFG = \frac{O}{H} = \frac{8}{10} = \frac{4}{5}$$



$$\frac{O}{H} \Rightarrow \sin 40^\circ = \frac{h}{200}$$

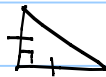
$$200 \cdot \sin 40^\circ = h$$

$$200(0.6428) = h$$

$$128.56 = h \quad \text{about } 129 \text{ m}$$

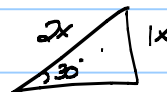
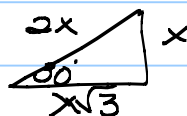
$$11. a. \text{ If } \tan \angle A = 1 \Rightarrow \angle A = 45^\circ$$

$$\frac{OPP}{ADJ} =$$

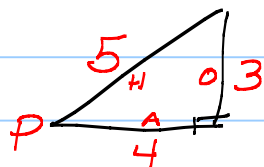


$$b. \sin \angle P = \frac{1}{2} \Rightarrow \angle P = 30^\circ$$

$$\frac{O}{H} = \frac{x}{2x}$$



12.



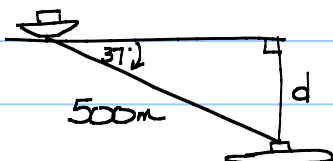
$$\cos \angle P = \frac{4}{5}$$

$$\sin \angle P = \frac{3}{5} \quad \frac{0}{4}$$

not
mult \Rightarrow

ratio of sides not Δ

9.10:



$$\sin 37^\circ = \frac{d}{500}$$

$$500 \cdot \sin 37 = d$$