

9.9: Intro to Trig

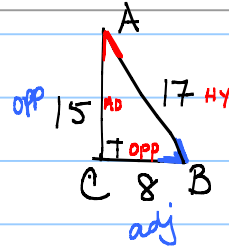
SOH CAH TOA

Note Title

2/22/2016

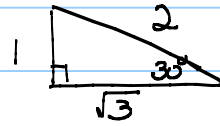
1. a. $\sin \angle A = \frac{8}{17}$
 b. $\cos \angle A = \frac{15}{17}$
 c. $\tan \angle A = \frac{8}{15}$

d. $\sin \angle B = \frac{15}{17}$
 e. $\cos \angle B = \frac{8}{17}$
 f. $\tan \angle B = \frac{15}{8}$



2. $\sin 30^\circ = \frac{1}{2}$
 $\cos 30^\circ = \frac{\sqrt{3}}{2}$
 $\tan 30^\circ = \frac{\sqrt{3}}{3}$
 $\frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$

$\sin 60^\circ = \frac{\sqrt{3}}{2}$
 $\cos 60^\circ = \frac{1}{2}$
 $\tan 60^\circ = \sqrt{3}$



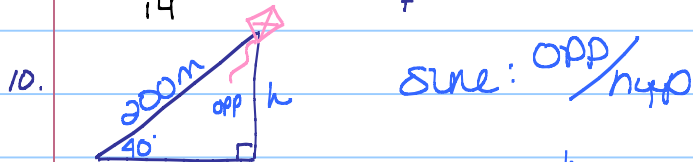
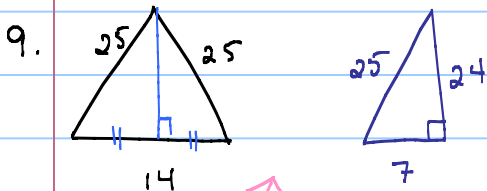
30-60-90
 $x \quad x\sqrt{3} \quad 2x$
 if $x=1 \Rightarrow 1 \quad \sqrt{3} \quad 2$

3. $\sin 45^\circ = \frac{\sqrt{2}}{2}$
 $\cos 45^\circ = \frac{\sqrt{2}}{2}$
 $\tan 45^\circ = 1$



4. $(3.9, 8, 8.9) \Rightarrow (39, 80, 89)$

9.9 HWK
 1-16 & 18



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

$200 \cdot (.6428) = h$

$128.56 = h$

$h \approx 129\text{m}$