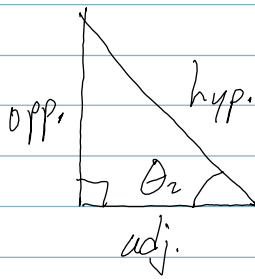
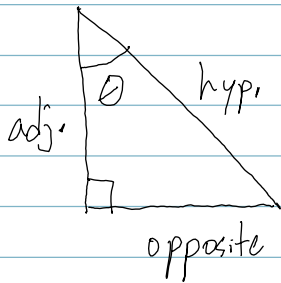


Basic Trig. Review

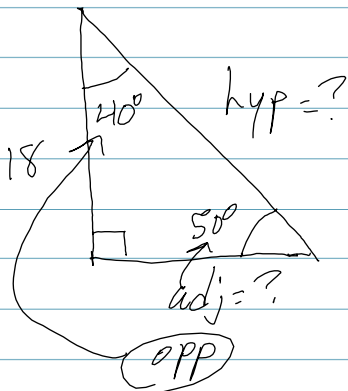


$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

$$a^2 + b^2 = c^2$$



$$\cos 40^\circ = \frac{18}{\text{hyp}}$$

$$\text{hyp} = \frac{18}{\cos 40^\circ}$$

$$\sin 40^\circ = \frac{\text{opp}}{\text{hyp}}$$

$$\tan 40^\circ = \frac{\text{opp}}{\text{adj}}$$

$$\sin 50^\circ = \frac{18}{\text{hyp}}$$

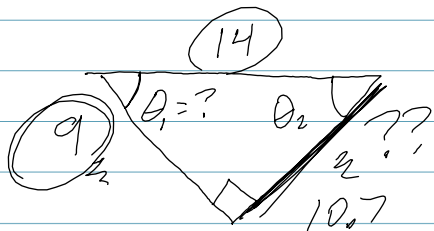
$$\text{hyp} = \frac{18}{\sin 50^\circ}$$

$$\cos 50^\circ = \frac{\text{adj}}{23.5}$$

$$23.5 \cos 50^\circ = \text{adj}$$

$$\boxed{\text{hyp} = 23.5}$$

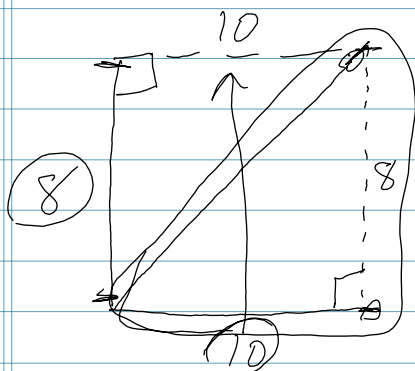
$$\boxed{\text{adj} = 15.1}$$



$$9^2 + b^2 = 14^2 \quad b^2 = 14^2 - 9^2 \quad \boxed{b = 10.7}$$

$$\cos \theta_1 = \frac{9}{14} \quad \cos^{-1}\left(\frac{9}{14}\right) = \theta_1 = \boxed{50^\circ}$$

$$\tan^{-1}\left(\frac{9}{10.7}\right) = \theta_2 = \boxed{40^\circ}$$

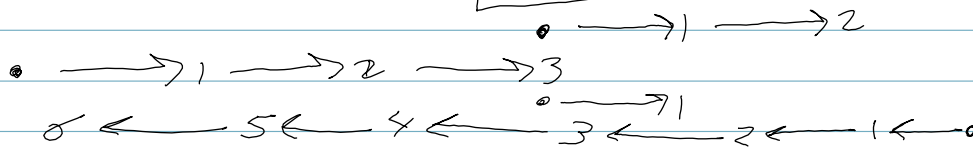


Metric System

kilo hecto deca

meter
liter
gram

deci centi milli



$$\underline{\underline{100}}\text{g} \rightarrow 10000\text{g} \quad \text{cm} \rightarrow 100000\text{mm}$$

$$\underline{\underline{.0024}}\text{kg} \rightarrow 2.4\text{g} \rightarrow 24\text{dg}$$

$$\underline{\underline{487.2}}\text{ml} \rightarrow .4872\text{L} \rightarrow \underline{\underline{.0004872}}\text{kL}$$