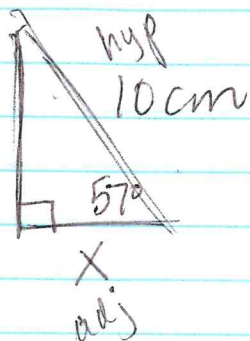


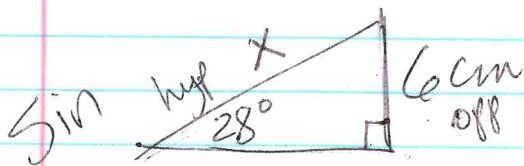
Notes on using trig ratios to find unknowns, (in right triangles)



CAH

$$10 \cos 57^\circ = \frac{X}{10} \cdot 10$$

$$5.4 \text{ cm} \approx X$$

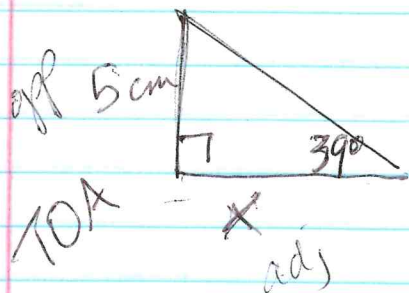


Sin

$$X \cdot \sin 28^\circ = \frac{6}{X} \cdot X$$

$$\frac{X \sin 28^\circ}{\sin 28^\circ} = \frac{6}{\sin 28^\circ}$$

$$X \approx 12.8 \text{ cm}$$



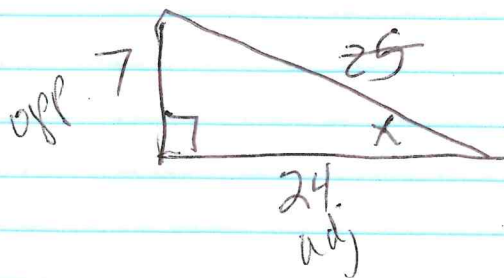
$$\tan 39^\circ = \frac{5}{X}$$

$$X = \frac{5}{\tan 39^\circ}$$

$$\tan 51^\circ = \frac{X}{5}$$

$$5 \cdot \tan 51^\circ = X$$

$$X \approx 6.2 \text{ cm}$$



$$\tan X = \frac{7}{24}$$

$$\tan^{-1} \left(\frac{7}{24} \right) = X$$

$$X \approx 16.26^\circ$$

use
2nd
tan

HW #10: p. 588-589: 1-20, 22