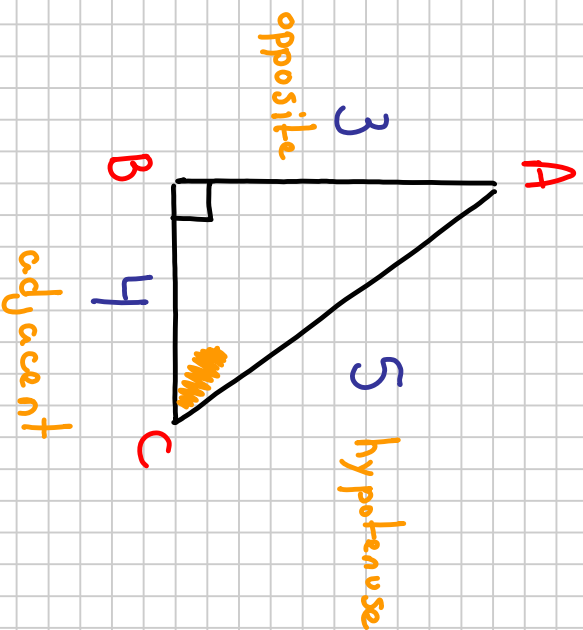


# Chapter Two Review

Note Title

6/5/2011



$$\frac{S_o}{h} \quad \frac{C_a}{h} \quad \frac{T_o}{a}$$

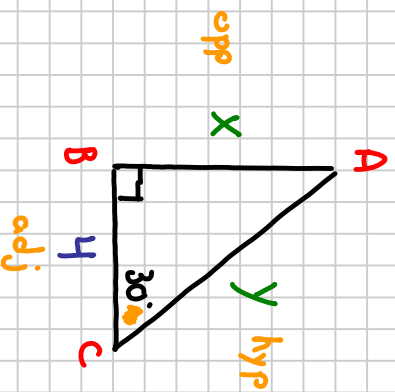
\* See formula sheet

$$\sin C = \frac{3}{5}$$

$$\cos C = \frac{4}{5}$$

$$\tan C = \frac{3}{4}$$

Example #1) Find sides



$$\tan 30^\circ = \frac{x}{4}$$

$$.577 = \frac{x}{4}$$

Cross Multiply to solve

$$1x = 4(.577)$$

$$x = 2.3$$

Proof:

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

$$2.3^2 + 4^2 = 4.6^2 \quad \checkmark$$

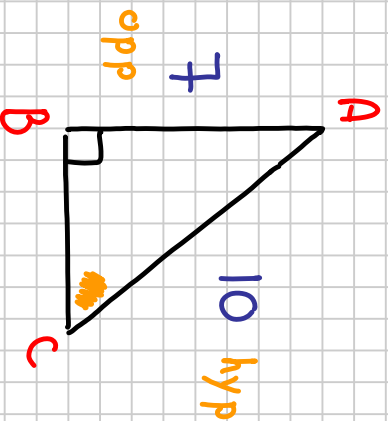
$$\cos 30^\circ = \frac{4}{y}$$

$$y = \frac{4}{\cos 30^\circ}$$

$$y = 4.6$$

When unknown value is  
the denominator switch  
the variable and the Cosine

## Example #2) Solve Angles



$$\sin C = \frac{7}{10}$$

$$\sin C = 0.7$$

$$2^{\text{nd}} \sin^{-1}(.7) \leftarrow \text{Converts to Angle}$$

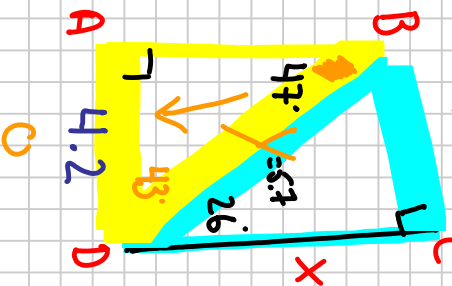
$$\angle C = 44^{\circ}$$

$$\cos A = \frac{7}{10}$$

$$\leftarrow 2^{\text{nd}} \cos^{-1}(7 \div 10)$$

$$\angle A = 46^{\circ}$$

Example #3)



Solve CD

$$\sin 47 = \frac{4.2}{y}$$

$$y = \frac{4.2}{\sin 47}$$

$$\boxed{y = 5.7}$$

$$\cos 26 = \frac{x}{5.7}$$

$$x = \cos 26(5.7)$$

$$\boxed{x = 5.1}$$