

TUESDAY NOVEMBER 29, 2011

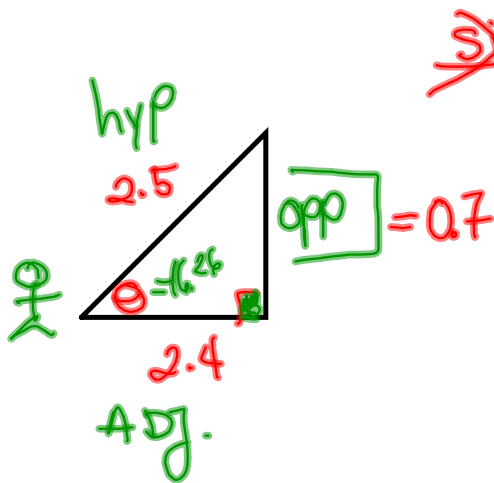
HW#17

Aim: Right Angle trigonometry - worksheet "C"

HW#9-#17 due 11/30/2011 at 11:45 pm.

Do Now - PLEASE continue w/ worksheet "C" -
complete it - PLACE it in your FOLDER.

7



~~SIX~~

$$\frac{3}{\sin \theta} = \frac{\text{opp}}{\text{hyp}} = \frac{0.7}{2.5}$$

$$\cos \theta = \frac{\text{ADJ}}{\text{hyp}} = \frac{2.4}{2.5}$$

$$\tan \theta = \frac{\text{opp}}{\text{ADJ}} = \frac{0.7}{2.4}$$

IDEA

① Pythagorean theorem

$$(\text{ADJ})^2 + (\text{opp})^2 = (\text{hyp})^2$$

$$(2.4)^2 + (\text{opp})^2 = (2.5)^2$$

$$5.76 + (\text{opp})^2 = 6.25$$

$$(\text{opp})^2 = 6.25 - 5.76$$

$$\text{opp}^2 = 0.49$$

$$\text{opp} = \sqrt{0.49}$$

② $\cos \theta = \frac{2.4}{2.5}$

SAKE $\cos^{-1}\left(\frac{2.4}{2.5}\right) = 16.26$

$$\tan 16.26 = \frac{x}{2.4}$$

$$2.4(\tan 16.26) = x$$

$$+ 0.7$$

$$- 0.7$$