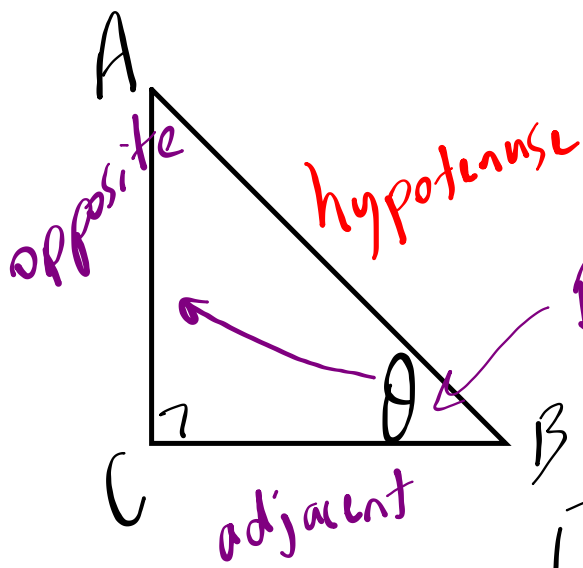


Monday, October 3rd

Show this video to start... "Gettin' TRIGGY with it!"

Click on the globe 





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

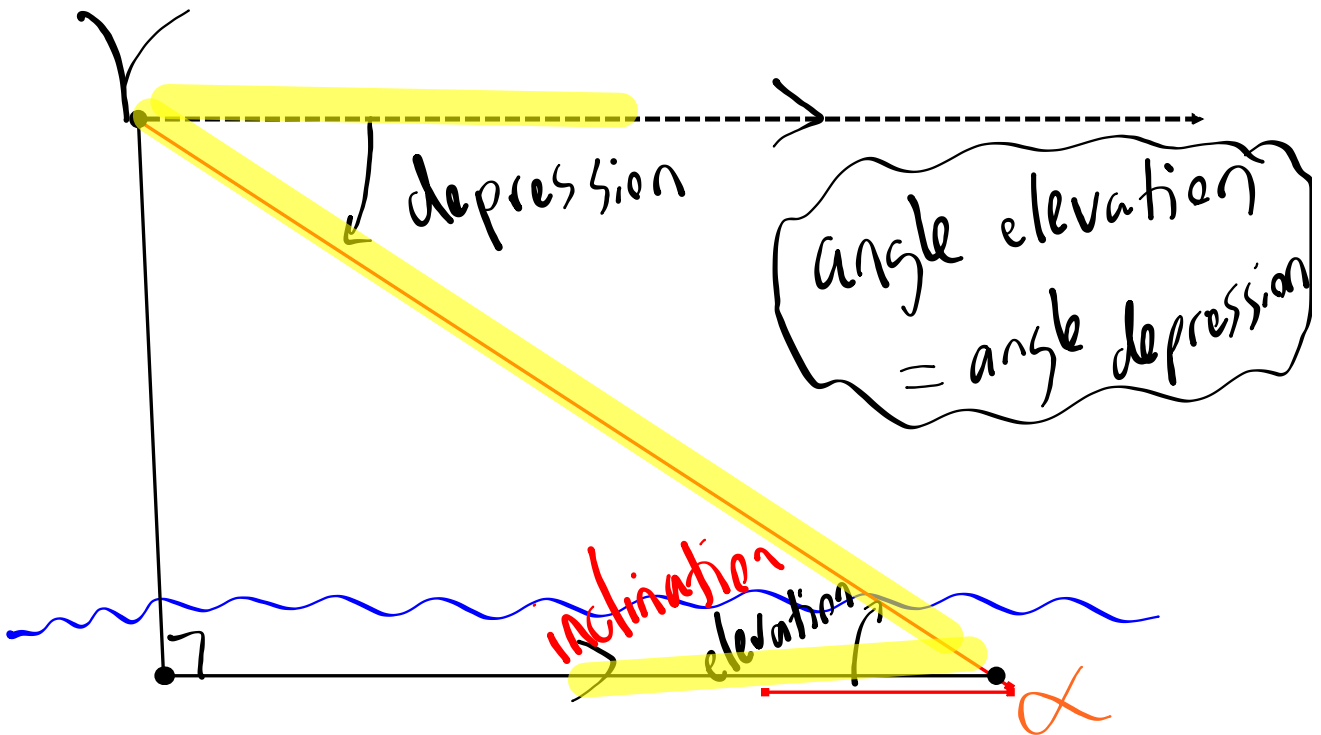
DRG

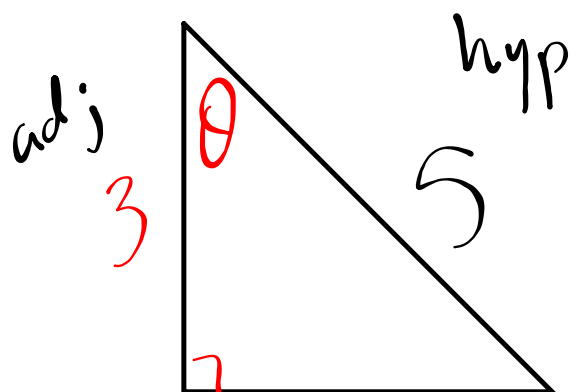
Reference angle
SOH CAH TOA

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

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

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



SOH CAH TOA

$$\cancel{\cos}^{-1} \cos \theta = \frac{3}{5}$$

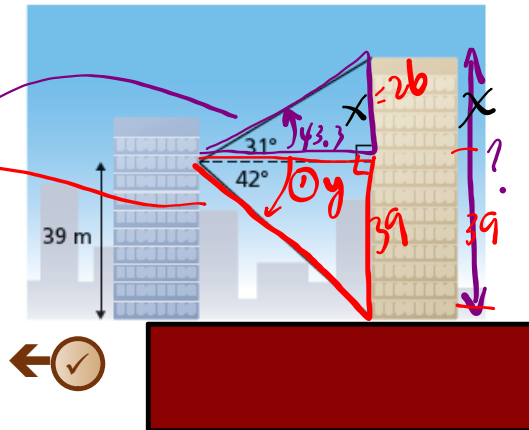
$$\theta = \cos^{-1} \left(\frac{3}{5} \right)$$

$$\theta = 53^\circ$$

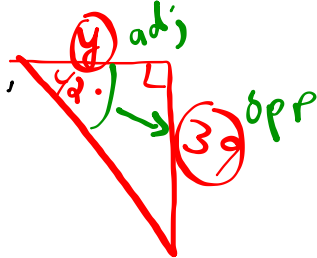
YOUR TURN...



A surveyor stands at a window on the 9th floor of an office tower. He uses a clinometer to measure the angles of elevation and depression of the top and the base of a taller building. The surveyor sketches this plan of his measurements. Determine the height of the taller building to the nearest tenth of a metre.



①



Solve CAH (TOA)

$$y \cdot \tan 42^\circ = \frac{39}{\tan 42^\circ}$$

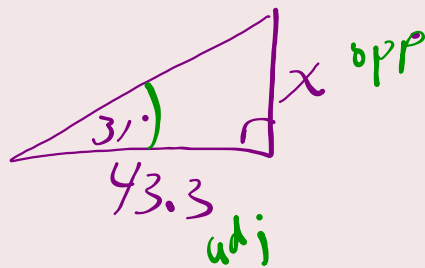


2.7 Solving Problems Involving More than One Right Triangle

$$y = \frac{39}{\tan 42^\circ}$$

$$y = 43.3$$

②



$$43.3 \tan 31^\circ = \frac{x}{43.3}$$

$$26.0 = x$$

③

$$h = 39 + 26$$

$$h = 65 \text{ m}$$

HOMEWORK... 10.7 # 2, 3, 4, 5, 10, 11ab

Booklet Exercise 10.8: #1 - 6