## HOMEWORK QUESTIONS... SOH YATH TO A



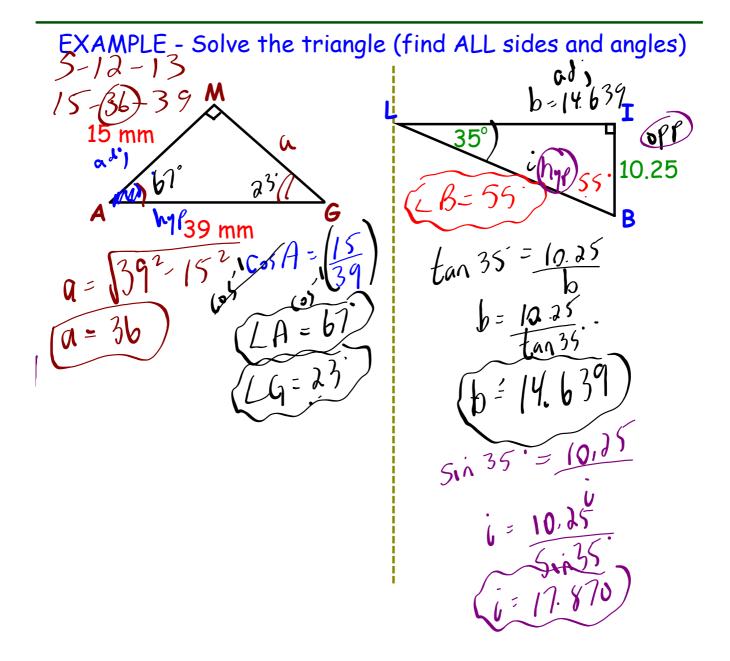
Q







$$\cos 35^{\circ} = 7.6$$



## Applications of Right Angle Trigonometry

## ANGLE OF ELEVATION/DEPRESSION

Angle of elevation - is the angle Angle of Depression - is the angle between between the ground and the line of sight.

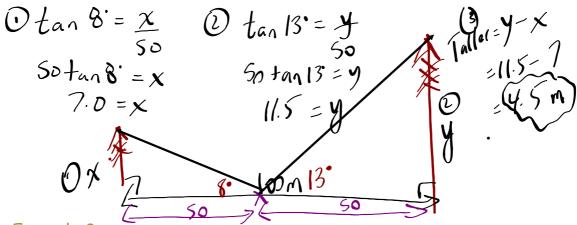
(angle of inclination)

Always outside the triangle

Always from the GROUND up

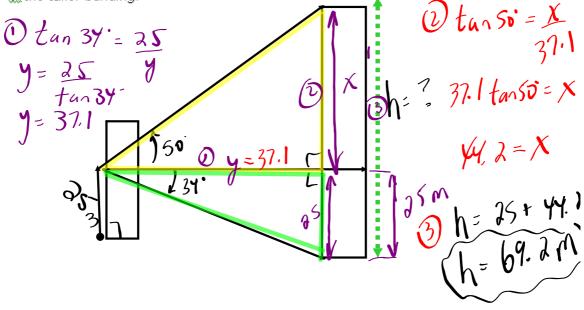
## Example 1:

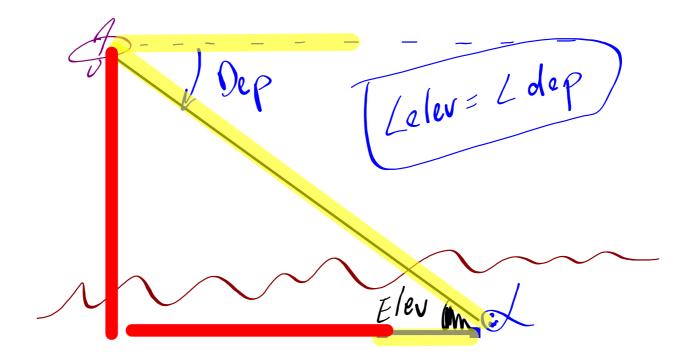
Two trees are 100m apart. From a point on midway between them, the angles of elevation to their tops are 8° and 13°. How much taller is one tree than the other?



Example 2:

The 8<sup>th</sup> floor of an apartment building is 25m above the ground. From the 8<sup>th</sup> floor, the angle of elevation to the top of the other building is 50°. The angle of depression to the base of the taller building is 34°. Determine the height of the taller building.





Exercise HOMEWORK SOLVE 10.7 #1/0,#1/ac,#/2ac Word 10.9 #1,3-6 Problems 10.9 #1,3-6