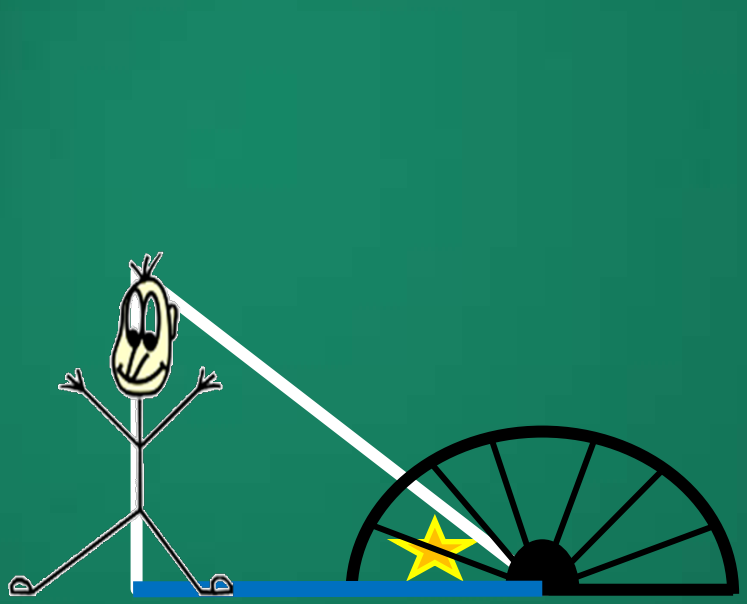
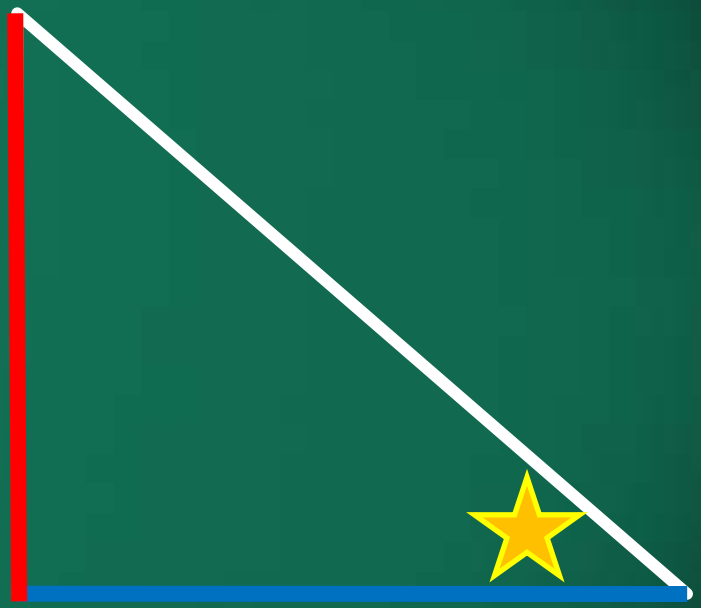
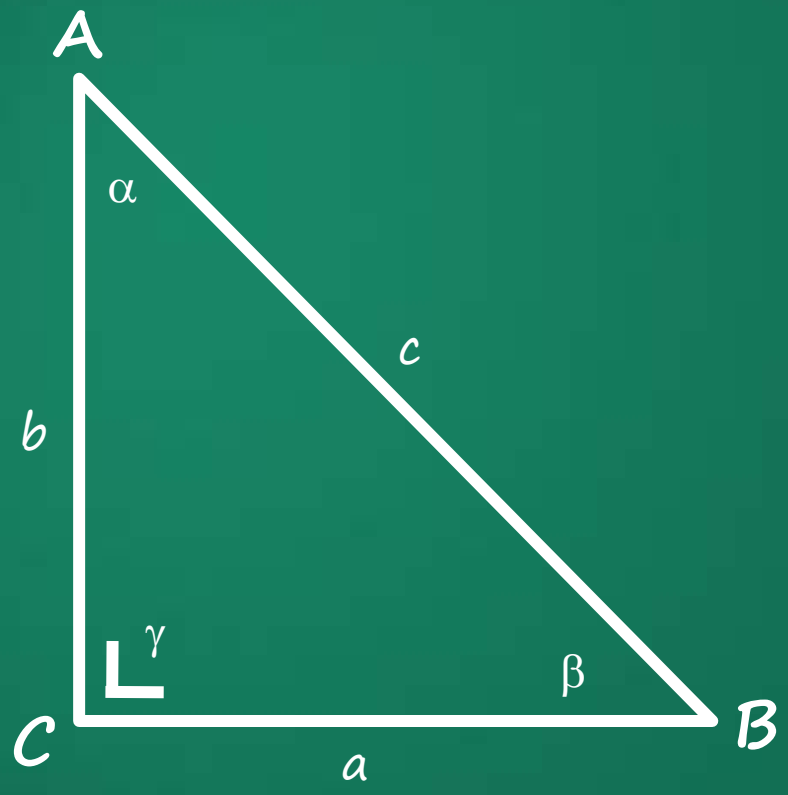
Angle of Elevation (using ratios)

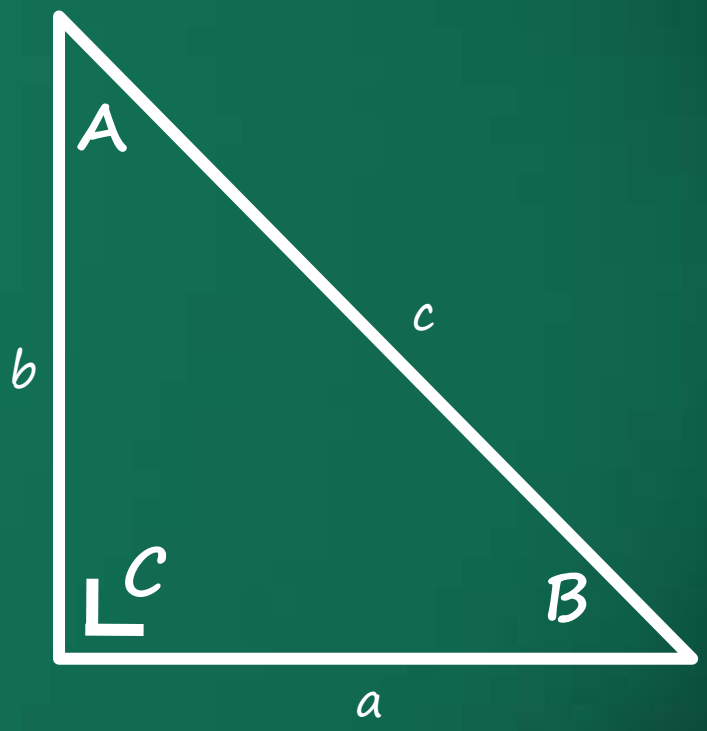




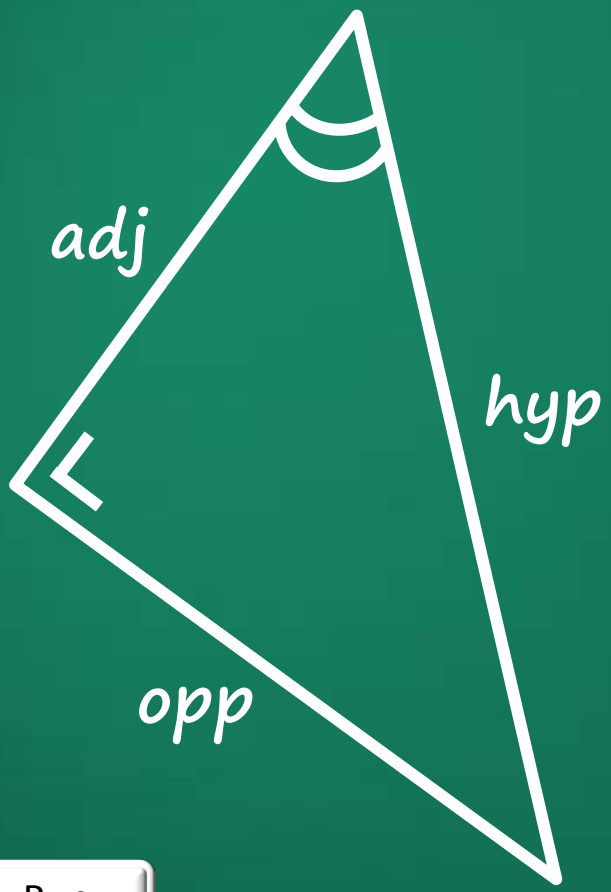
$$\frac{\text{height of building}}{\text{length of building shadow}} = \frac{\text{my height}}{\text{length of my shadow}}$$

Notation





Right angled Triangles



opp / hyp

hyp / opp

adj / hyp

hyp / adj

opp / adj

adj / opp

Run

Ratios

Some Questions!

1. Write down what you have observed from your answers.

2. Is it possible for any of the ratios to be bigger than one?
   If so, which one or ones and why?

Trigonometry

$\frac{opp}{hyp}$ = **sine** of the angle $\qquad \sin A = \frac{opp}{hyp}$

$\frac{adj}{hyp}$ = **cosine** of the angle $\qquad \cos A = \frac{adj}{hyp}$

$\frac{opp}{adj}$ = **tangent** of the angle $\qquad \tan A = \frac{opp}{adj}$