

TRIGONOMETRY:

relationships between the angles + the lengths of the sides of triangles.

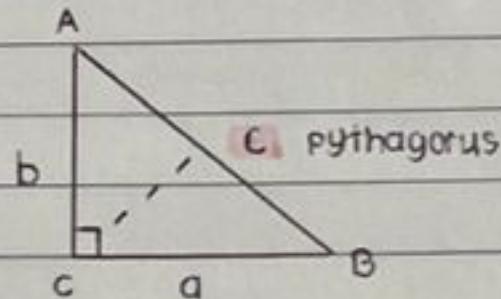
Angles in Trigonometry are usually indicated in Greek letters:
 θ = theta β = beta α = alpha ϕ = phi

~ PYTHAGORUS THEOREM:

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

$$a^2 = c^2 - b^2$$

$$b^2 = c^2 - a^2$$



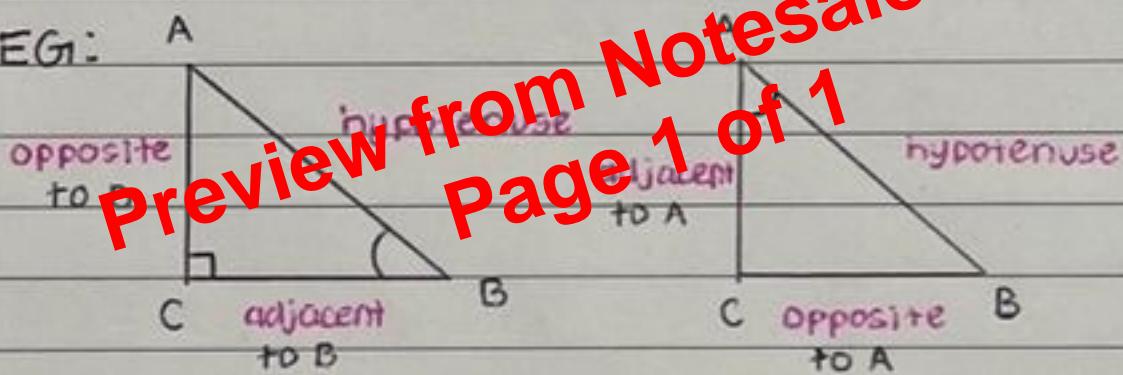
Label 3 sides of the Δ as... adjacent, opposite, and hypotenuse

adjacent = the side left over from opposite + adjacent sides, side next to L

opposite = opposite the main angle

hypotenuse = longest side, inbetween the adjacent + opposite sides

EG:



~ TRIGONOMETRY RATIOS:

sin] Applied to a right angled Δ :
 Cos] define the relationship between
 Tan] its sides + angles

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

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

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

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