

# Notes

## THE 3 Trig Functions

① Sine ( $\theta$ ) =  $\frac{\text{opposite}}{\text{hypotenuse}}$   $\rightarrow$   $\sin(\theta) = \frac{O}{H}$

② Cosine ( $\theta$ ) =  $\frac{\text{Adjacent}}{\text{Hypotenuse}}$   $\rightarrow$   $\cos(\theta) = \frac{A}{H}$

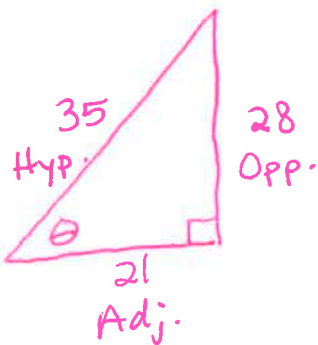
③ Tangent ( $\theta$ ) =  $\frac{\text{Opposite}}{\text{Adjacent}}$   $\rightarrow$   $\tan(\theta) = \frac{O}{A}$

★ Easy Way to Remember the trig functions ★

SOH - CAH - TOA

$S\frac{O}{H}$  -  $C\frac{A}{H}$  -  $T\frac{O}{A}$

Example: Compute the 3 trig values for the  $\Delta$ .



$$\sin(\theta) = \frac{\text{opp}}{\text{hyp}} = \frac{28}{35} = 0.8$$

$$\cos(\theta) = \frac{\text{adj}}{\text{hyp}} = \frac{21}{35} = 0.6$$

$$\tan(\theta) = \frac{\text{opp}}{\text{adj}} = \frac{28}{21} = 1.\bar{3}$$