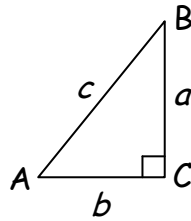


# Trigonometry

$$\angle A + \angle B + \angle C = 180^\circ$$

$$\angle A = 90^\circ - \angle B$$



Pythagorean Theorem

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

Right Triangles

Primary Trigonometric Ratios

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

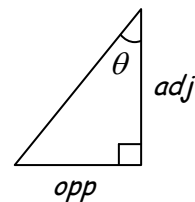
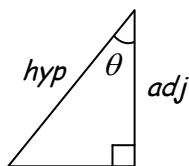
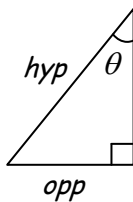
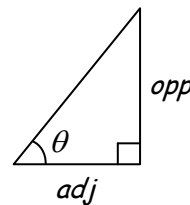
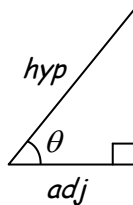
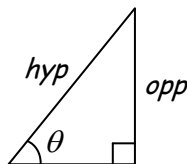
$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

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

**SOH**

**CAH**

**TOA**



## Important:

- ☑ First identify the angle and label its hypotenuse, opposite and adjacent sides.
- ☑ Based on the given angle and the given two sides, eliminate the unrelated side and the corresponding two trigonometric ratios.
- ☑ Use the remaining trigonometric ratio to solve for the unknown.
- ☑ Always use the given values to find the unknown values. If you make a mistake calculating one value, you may still be able to determine the other values correctly using the given values rather than your calculated values.