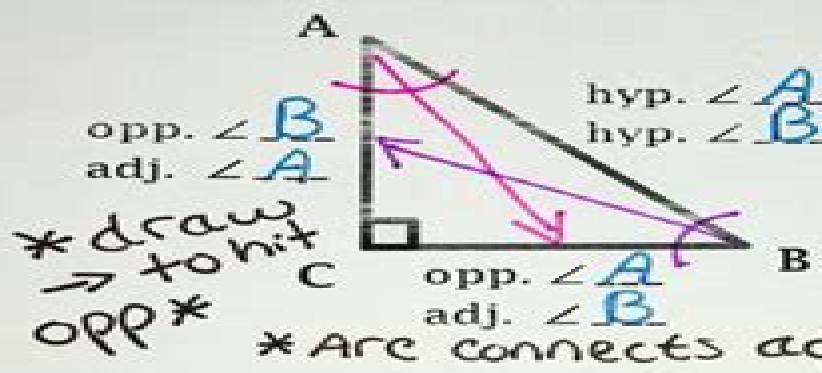


Trigonometry - Introduction

Trigonometry is

- The study of the properties of triangles and trigonometric functions and their applications
- It uses the trig functions to find the missing Sides or angles of a Right triangle
 - The Trig functions as defined here work for the acute angles of Right TRIANGLES ONLY



Opposite: Side across from the angle (not a side)

Adjacent: Side that forms the angle (not the hypotenuse)

Sine

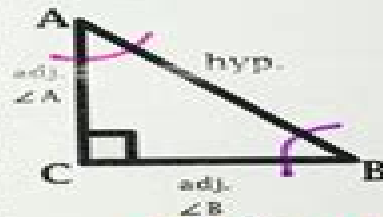


$$\sin = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\sin A = \frac{CB}{AB}$$

$$\sin B = \frac{AC}{AB}$$

Cosine



$$\cos = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\cos A = \frac{AC}{AB}$$

$$\cos B = \frac{CB}{AB}$$

Tangent



$$\tan = \frac{\text{opposite}}{\text{adjacent}}$$

$$\tan A = \frac{CB}{AC}$$

$$\tan B = \frac{AC}{CB}$$

Lesson 10 1 Right Angle Trigonometry

Scott C. Dulebohn



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