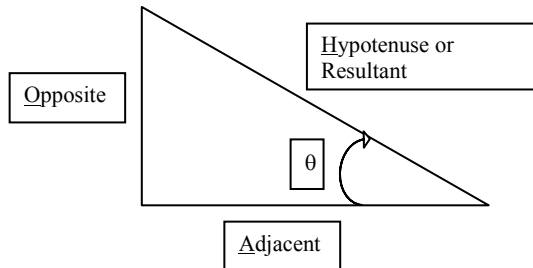


Chapter 3 formulas:



$$\sin \theta = O/H$$

$$\cos \theta = A/H$$

$$\tan \theta = O/A$$

$$\theta = \tan^{-1} (O/A)$$

Constant motion: only used with average velocity or with constant velocity!!

$$\Delta x = v_{average} \times t$$

Accelerated motion: When the acceleration is due to gravity, acceleration is “g”

$$\Delta y = v_{iy} t + \frac{1}{2} g t^2$$

$$v_{fy} = v_{iy} + g t$$

$$v_{fy}^2 = v_{iy}^2 + 2 g \Delta y$$

$$g = 9.8 \text{ m/s}^2 \text{ or you can use } 10 \text{ m/s}^2$$