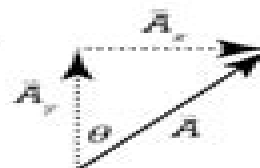




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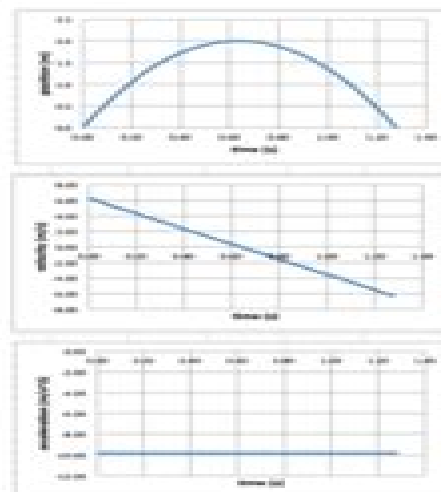
Introductory Concepts:

- Vector: Magnitude and Direction
 - Magnitude means the "amount" of the vector or the value of the vector without direction.
- Scalar: Magnitude only, no direction
- Component Vectors
 - These won't always be with the horizontal, so the component in the x direction won't always use cosine.
 - $\sin \theta = \frac{O}{H} = \frac{\bar{A}_x}{\bar{A}} \Rightarrow \bar{A}_x = \bar{A} \sin \theta$



Kinematics:

- Distance vs. Displacement
 - Distance is how far something moves and it includes the path travelled.
 - Distance is a scalar.
 - Displacement is the straight-line distance from where the object started to where it ended.
 - Displacement is a vector.
 - Displacement is the change in position of an object. $\Delta \vec{x} = \vec{x}_f - \vec{x}_i$
- **Speed** = $\frac{\text{Distance}}{\text{Time}}$, is a scalar.
- Velocity, $\vec{v} = \frac{\Delta \vec{x}}{\Delta t}$, is a vector.
- Acceleration, $\vec{a} = \frac{\Delta \vec{v}}{\Delta t}$, is a vector.
- The slope of a position vs. time graph is velocity.
- The slope of a velocity vs. time graph is acceleration.
- On an acceleration vs. time graph, the area between the curve & the time axis is change in velocity.
- On a velocity vs. time graph, the area between the curve & the time axis is change in position which is also called displacement.
- In Free Fall, $\vec{a}_y = -g = -9.81 \frac{m}{s^2}$.
 - An object is in free fall if the only force acting on it is the force of gravity. In other words: the object is flying through the vacuum you can breathe* and not touching any other objects.



* Vacuum you can breathe = no air resistance.

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