Week 10 Graph Sketching & Kinematics Lecture Note

Notebook: Computational Mathematics

Created: 2020-04-21 2:48 PM **Updated:** 2020-05-22 5:57 PM

Author: SUKHJIT MANN

Cornell Notes

Topic:

Graph Sketching & Kinematics Continued

Course: BSc Computer Science

Class: Computational Mathematics[Lecture]

Date: May 22, 2020

Essential Question:

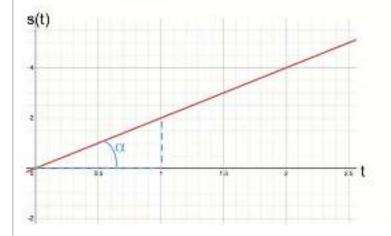
What is a function and what are its applications to kinematics (simple motion)?

Questions/Cues:

- What is the uniform motion on a straight line in the case of constant velocity?
- What is uniformly accelerated motion in the case of a projectile?

Notes

Uniform motion on a straight line: constant velocity



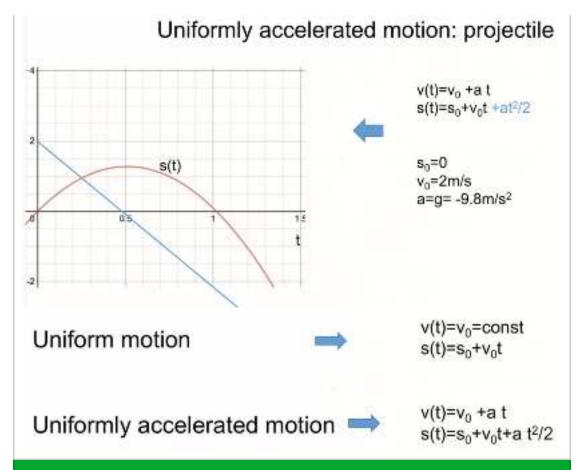
$$v(t)=v_0=const$$

 $s(t)=s_0+v_0t$

$$s_0=0$$

 $v_0=2m/s$

$$\tan(\alpha)=2/1=v_0$$



Summary

In this week, we learned about uniform motion and uniformly accelerated motion.