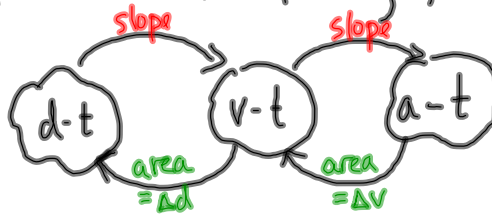


TEST - Kinematics (Oct 19)

- description \Leftrightarrow d-t, v-t, a-t graphs



- find constant / average / instantaneous velocity from d-t graph
- find constant / average / instantaneous acc from v-t graph
 (slope anywhere) (slope b/w start-end) (slope of tangent at t)

- Solving problems

- constant velocity: $v = \frac{\Delta d}{\Delta t}$
- non constant velocity: $v_{ave} = \frac{\Delta d}{\Delta t}$
- constant acc:

$$v_{ave} = \frac{\Delta d}{\Delta t} \Rightarrow v_{ave} = \frac{v_1 + v_2}{2}$$

$$a = \frac{\Delta v}{\Delta t} \Rightarrow \Delta v = v_2 - v_1$$

will be given * Maybe useful:

$$\Delta d = v_1 \Delta t + \frac{1}{2} a (\Delta t)^2$$

$$\Delta d = v_2 \Delta t - \frac{1}{2} a (\Delta t)^2$$

$$v_2^2 = v_1^2 + 2as$$

What should you study?!

- INV 1 to 5 and corresponding worksheets
- Chapter 2 and 3-1
- Look over notes / PP / assignment / lab
- Do LOTS of problems!

Suggested REVIEW:

① p120/38,39,42-45

② Calculator Pad / Kinematics \rightarrow You should be able to do all questions now