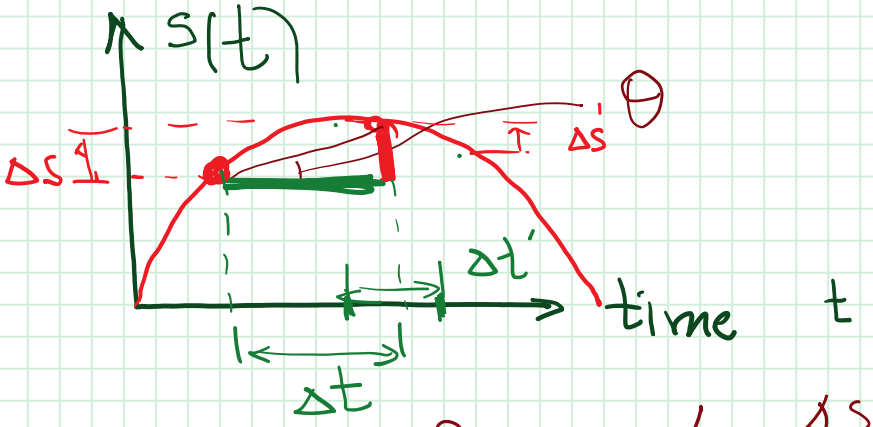
Tuesday, August 16, 2022 9:22 AM

V = Rate of change



$$V = \frac{\Delta s}{\Delta t} \qquad \tan\theta = \text{slope} = V = \frac{\Delta s}{\Delta t}$$

$$V' = \frac{\Delta s'}{\Delta t'}$$

- Different rates of change (V, V') result from different choices of time interval $(\Delta t, \Delta t')$ & space interval $(\Delta s, \Delta s')$
- V, V' can be interpreted as <u>average</u> rates of change over different time intervals.
- But, could an instantaneous velocity be defined? Answer in L02!