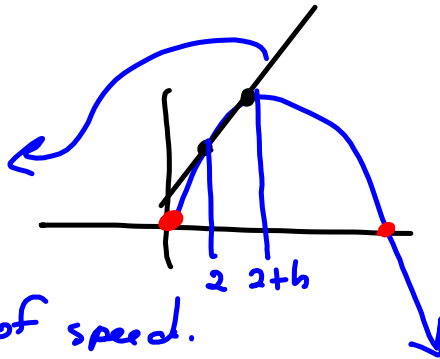


If $y = f(t)$ is position as a function
of $t = \text{time}$,

then

Slope
is
average
rate of speed.



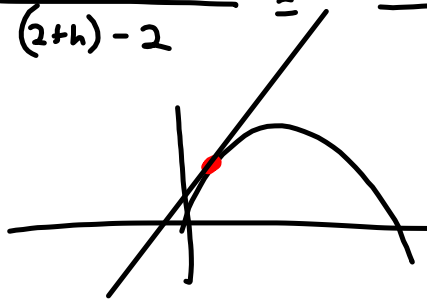
$$\frac{40 \text{ ft}}{\text{s}}$$

$$-16t^2 + 40t$$

$$t = 2$$

$$\frac{f(2+h) - f(2)}{(2+h) - 2} = \frac{f(2+h) - f(2)}{h}$$

$$h = .5, .1, .05, .01$$



$$\frac{f(2.5) - f(2)}{.5}$$

$$\frac{f(2.1) - f(2)}{.1}$$

$$\frac{f(2.05) - f(2)}{.05}$$

etc.



$$f(t) = -4t^2 + 40t \Rightarrow$$

$$f'(t) = -32t + 40 \Rightarrow$$

$$f'(2) = -32(2) + 40 = -24 \checkmark$$

Homework scores are just my telling you what I'm looking for. Everybody with a pulse who handed in something got 10/10 on 1.1, 1.2.

Write 201-1.4 in top left corner on every page, and you'll always have the margin I insist on. 201-1.6 for Section 1.6, etc. Write out your last name.

Space between problems.

One column only.

One side of the page, only.

Paper without lines. (I've got plenty if you don't.)

INCLUDE ENOUGH OF THE CONTEXT OF THE QUESTION FOR YOUR WORK TO STAND ON ITS OWN!!! "context"

Include a simple figure if you're working off a picture for an exercise.