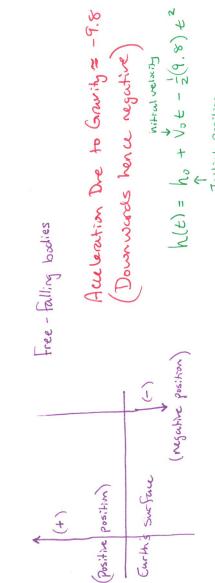
Lesson 65

Agenda: 11/10/15

lesson 65

Fulling - Body Problems



PV @

ا ا

acceleration

h"(6)= v'(t)=a(e)=-9.8

Ex 65.3

[Position]

in I relocity of 20 m/s. Begin with the acceleration brucken and develop the velocity and accultantion function for the stone. Then high will the stone go? How long after the stone A boy shood on trop of a 40m building and throw a stone upwards with a is thrown will it hit the grand.

(1) 
$$0=\sqrt{t}$$
 |=  $20-9.8 t$  =>  $t = \frac{20}{9.8}$  seumods  $\approx 2.0408$  seumods   
 $h\left(\frac{20}{9.8}\right) = 40 + \frac{20^2}{9.8} - \frac{1}{2} \cdot 1.8 \left(\frac{20}{9.8}\right)^2 \times (60.4382 \text{ methors})$ 

0=h(t)= 40+206-49t2 7

$$E = \frac{20 \pm 1400 + 160(4.9)}{2(-4.9)} \approx 5.5520 \text{ or } -1.4703}$$

$$E = \frac{20 + 1400 + 160(4.9)}{800 + 18} \approx 5.5520 \text{ or } -1.4703}$$