

2018-09-11

- Questions?
 - Syllabus.
 - HW.
- S.P.S.
- Thrown Stone.

office hours?

NYU Physics I

- Motion in one dimension
- Motion in 2, 3 dimensions.
- Free-body diagrams.
- Newton's Laws.
- (energy?)
- VECTORS

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MEETINGS THURS. 7 PM

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ps 1 Q 4. (2)

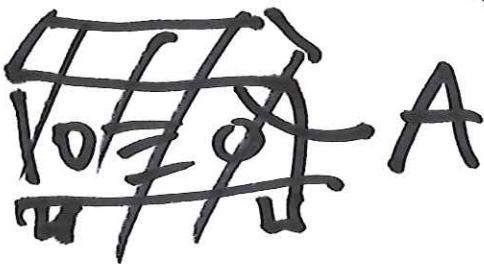
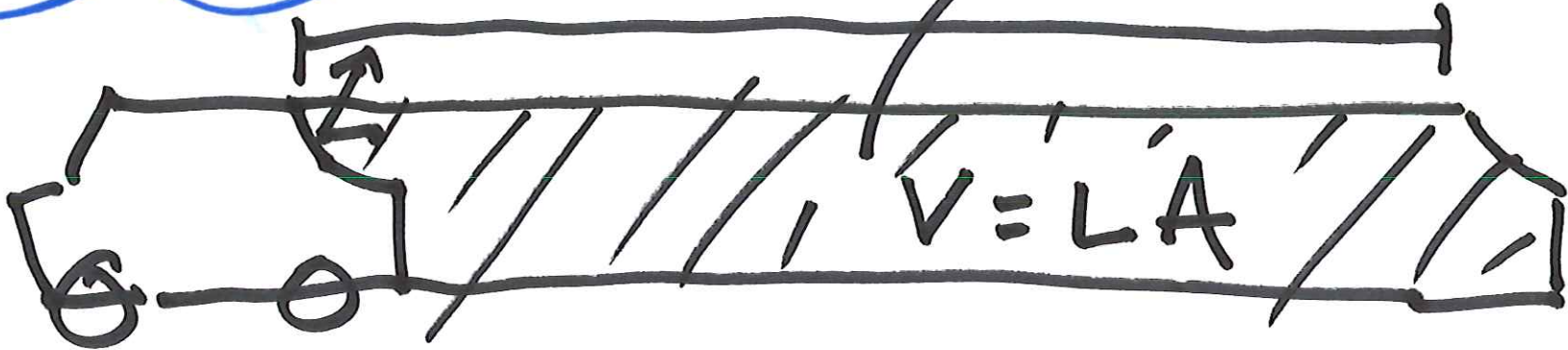
Cavendish Exp

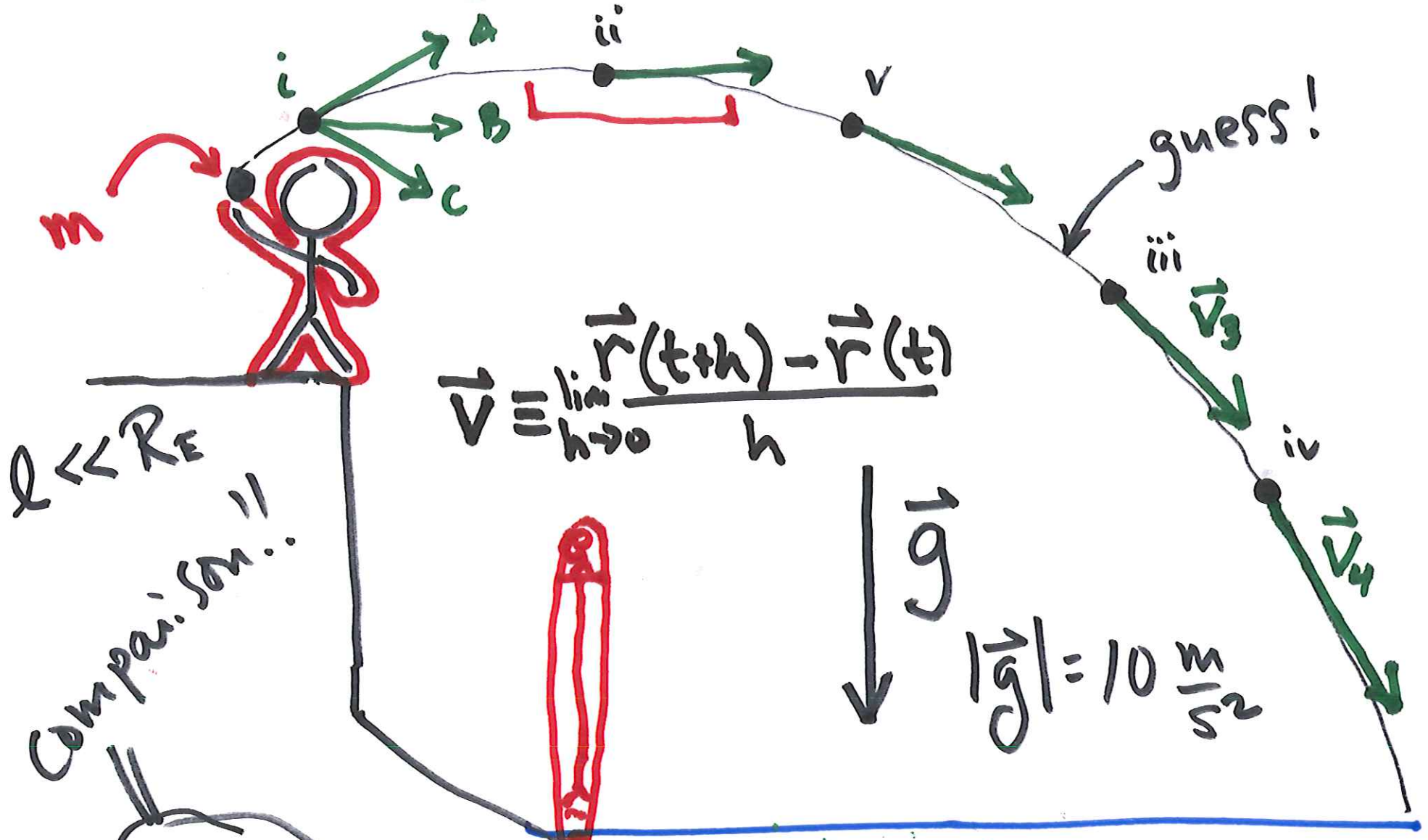
u.w.



mass of air

L





$$\vec{v} \equiv \lim_{h \rightarrow 0} \frac{\vec{r}(t+h) - \vec{r}(t)}{h}$$

$l \ll R_E$
Comparison!

ignore air resistance?

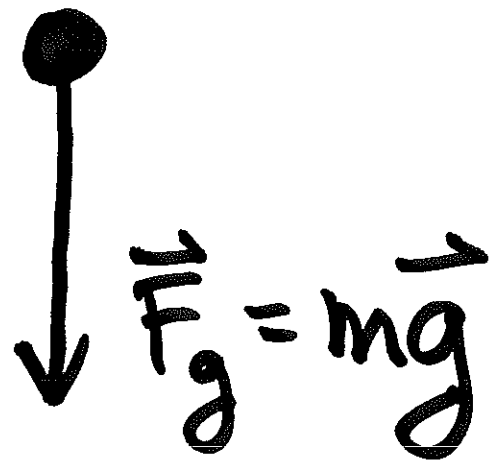
$F_g \gg F_{air}$?

$$mg \gg \rho A v^2$$

$$\frac{\rho A v^2}{mg} \ll 1$$

point-particle approximation

Free-body diagram.
(draw all forces acting)



- gravity,
- contact forces

