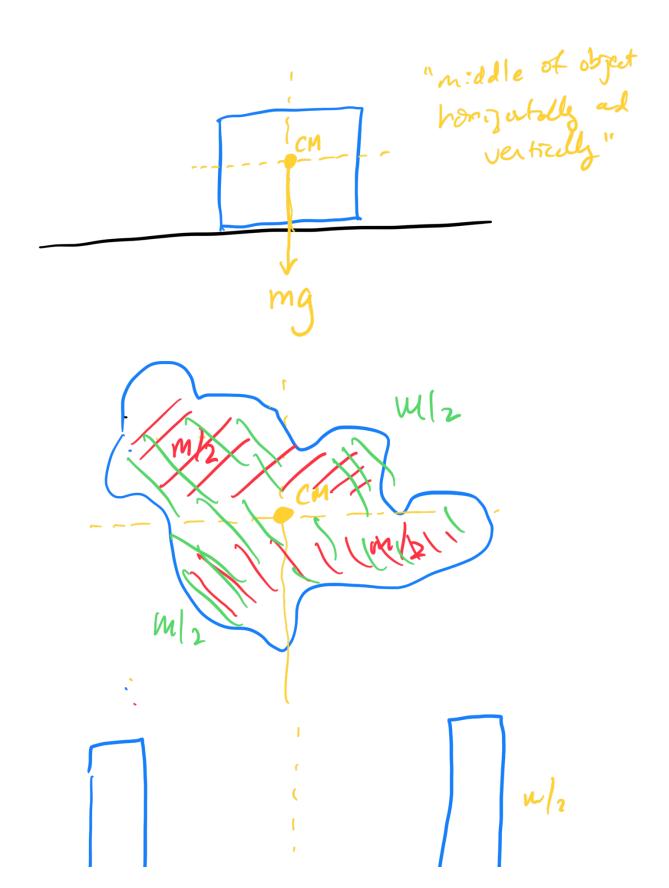
Physics 201 - Lecture 23 + M2V2 W3 450 Î

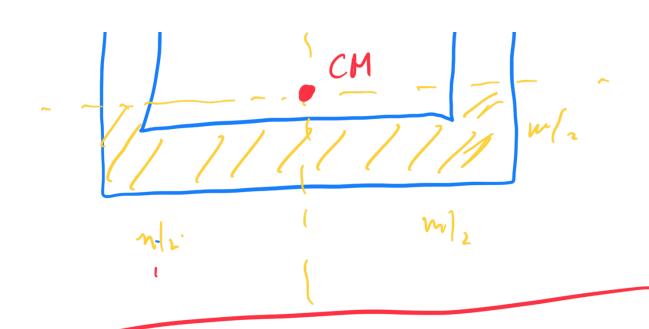
$$P_{sys} = (M) v_{sin} + (M)$$

4.17 m/s

Monter of Mars -1 Center of Granty.

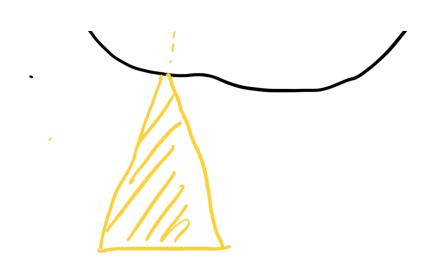






Contend Mans > center of fre chject, besed on how fre was of distributed in space.

"Balance Point"



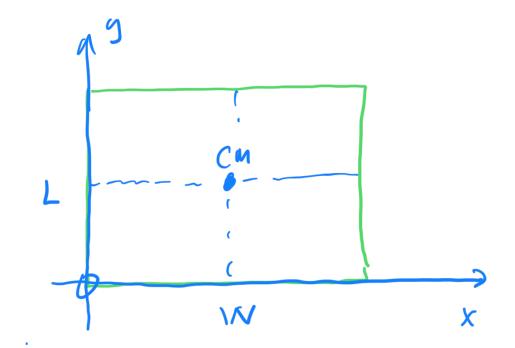
Distribution of mees what is the mass of its weatersle.

$$\int_{Cm}^{\infty} = \int_{M}^{\infty} \int_{r}^{\infty} dm$$

i continue.

$$\frac{0}{99} \propto_{cm} = \frac{1}{m} \int x dm$$

What is don? Really ...



$$A = LW$$
 $\therefore P = \frac{M}{LW}$

$$2 c_{m} = \frac{1}{M} \iint x p \, dx \, dy$$

$$= \frac{1}{M} \cdot \underbrace{\frac{1}{L}w} \cdot \underbrace{\int x \, dx \, dy}$$

$$= \frac{1}{M} \cdot \underbrace{\frac{1}{L}w} \cdot \underbrace{\frac{1}{L}w} \cdot \underbrace{\int x \, dx}$$

$$= \frac{1}{M} \cdot \underbrace{\frac{1}{L}w} \cdot \underbrace{\frac{1}{$$