

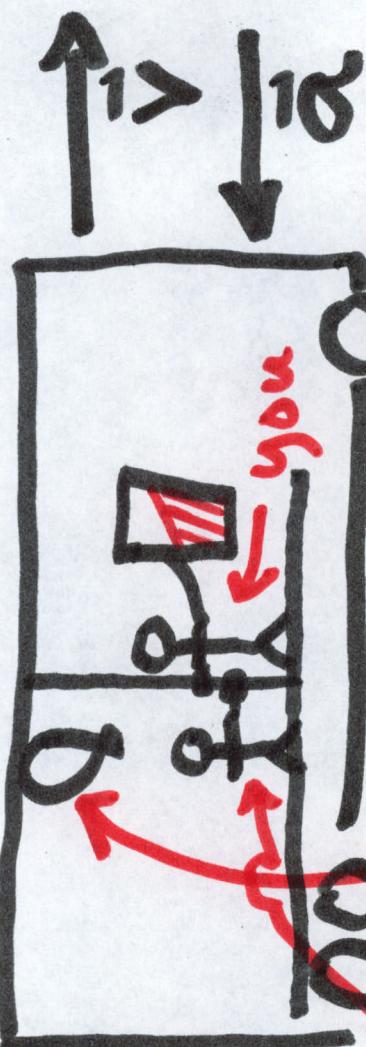
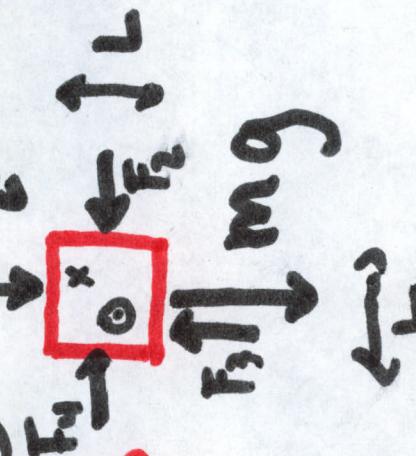
brakes on,

moving fast

$$PV = nRT \quad P = \frac{nRT}{V}$$

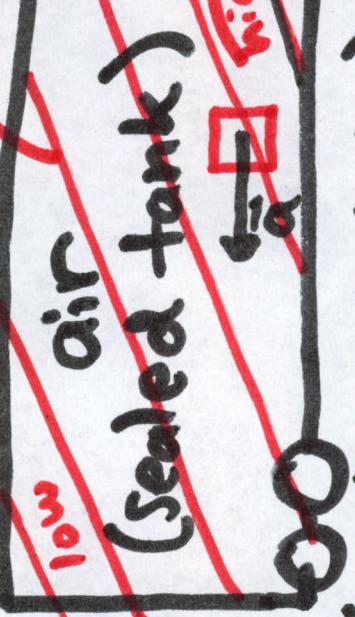
parked

$$m = \rho_{air} L^3$$



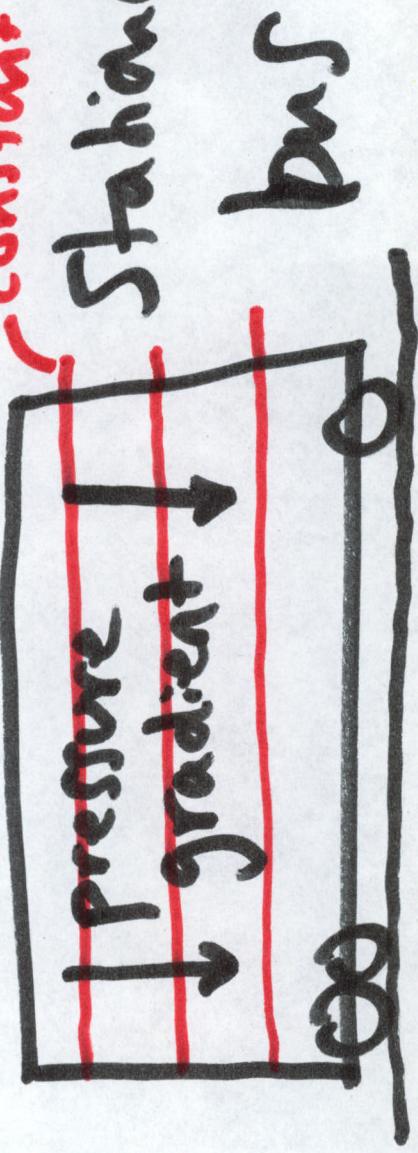
the balloon

constant pressure forces



(in steady state)

constant pressure surfaces



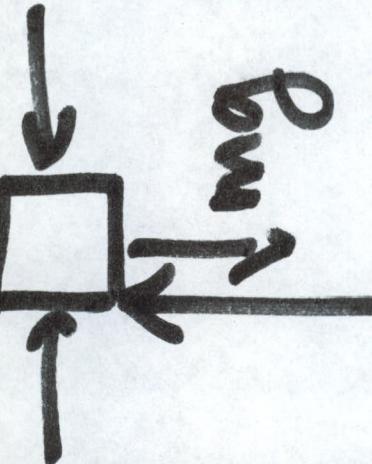
Stationary, level

bus

stationary non-level

bus

(supposed to be horizontal)



"phi" marshall balloon video

## isotropic:

Forces ~~are~~ are the same  
in all directions

(does not mean "the same in all locations")

