

NYU Physics I - 2016-09-20

Agenda: - reading! - N's Laws.

(feynman...)

- motion in 1D

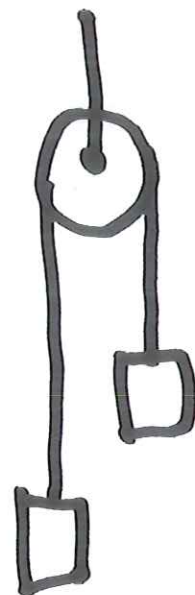
- motion in 3D

- pulleys, blocks, planes

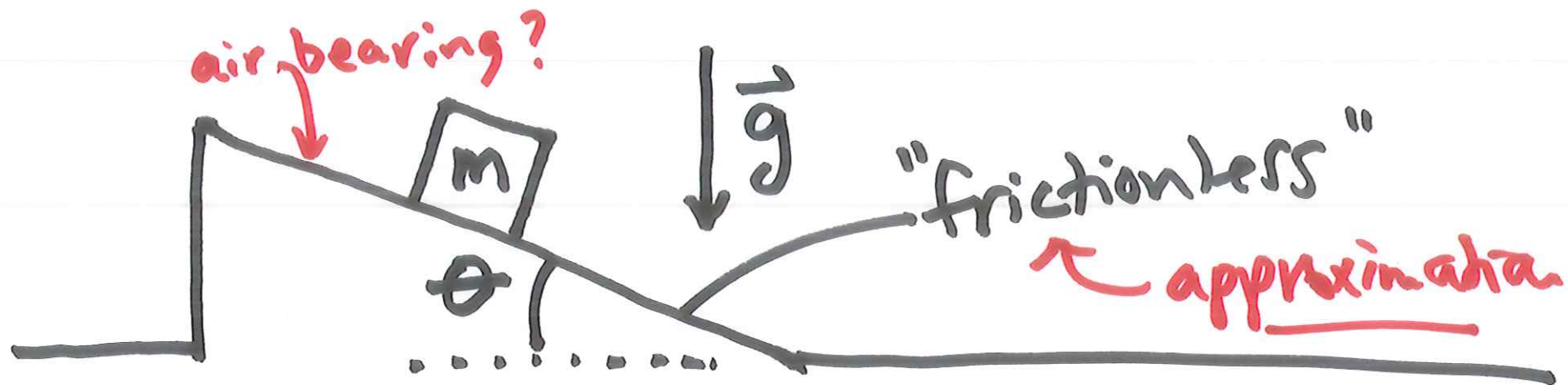
- massless & inextensible.

- Qs.

- block on a plane
(+ the future...)



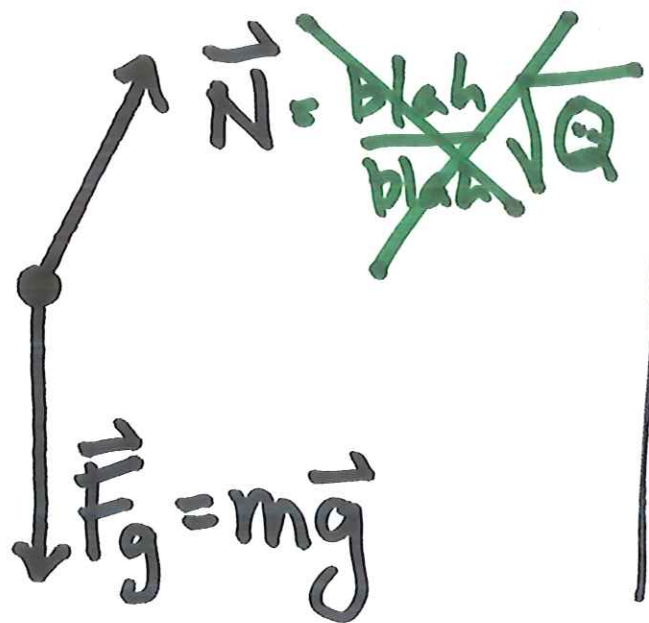
exam
scope



what is the acceleration of the block?

guesses: ~~$|\vec{g}|$~~

F.B.D.



$|\vec{g}| \sin \theta$ (vertical)
(total)

~~\vec{g}~~ (vertical)

$\frac{1}{2} |\vec{g}|$ (y-direction)

~~$|\vec{g}| \cos \theta$~~

One more fact: the block will
accelerate, parallel to the plane

