PHYSICS 111 - CLASS OS

CQ 5.1 - Weight on the moon

W = 294N → W = ?

Remember that gmoon ~ gearth / 6

WE = M GE

M= WE -> Wm = M 9m

WM = WE/6 50.1N

CQ 5.2 - Balls thrown in air



Balls thrown in the air with the same force will travel different distances depending on the angle

CQ5.3 - Block on a ramp



Statements:

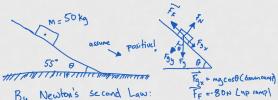
1. Frictional Porce is up the inclined plane

TEUE 11. Fx depends on the Mass of the object: FF= NFN

= MMacos0 TRUE III. If A increases, FF decreases

FALSE IV. Fr depends on the speed of the object.

CQ 5.4 - Block on Ramp (Calculation)



By Newton's second Law:

FNET = 2 Fi = M. ar

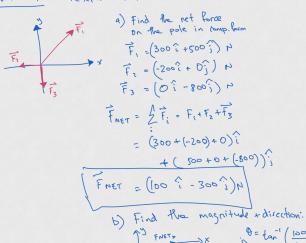
X: $M \cdot \vec{a}_T = (\vec{F}_{g_X} - \vec{F}_F)$ = (mg sint - FF)

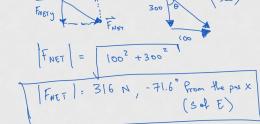
There is negative

I fans is negative

I fans is pesitive

I fans is pesitive WP 5.1 - Telephone Pole





WP 5.2 - Pushed Block

