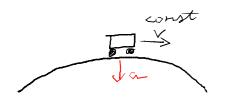
Neuton's 2nd Law c)T<mg 1) Elevator moves up at constant speed Fret = T-mg = 0 2) Elevates moving up, slowing down. al Fret 1 mg>T 3) Elevator moving up getting faster T > mg NISO T>mg when going down & slowing down suddenly starts Maring downward B) ~=mg (c) N<mg Our experience of gravity is really the force of the floor pushing up on us "apparent weight" Elevator is accelerating downward Minimum acceleration so that your feet leave the floor? Fret = N-my =-ma & Va N=0 when feet leave floor my -mg = -ma → a = g free fall 194 19 If a>g Nfloor = 0 elevator falls at a>g You ant only feel Fret = my Elevator ends up faster chan you until you hit the certing



Ninormal force
of road on can
mg: weight of can

A) N>my B) N=mg C) N<mg

Centri petal accederation

towards center

Fret L >> mg > N

a = v so if v is too big or

then N > 0 and you go into free fall - Yee Land!

Object moving in a circles (5 accolerating towards the center

Fret = mac = m \frac{1}{r} centripetral

force

Almost all types of forces can be centripeted

Normal: car above

Tension: rock spanning on strang

Corasity: or bits

Static Friction: walking in a circle Kiretic Friction: NO -rever 1 to motion