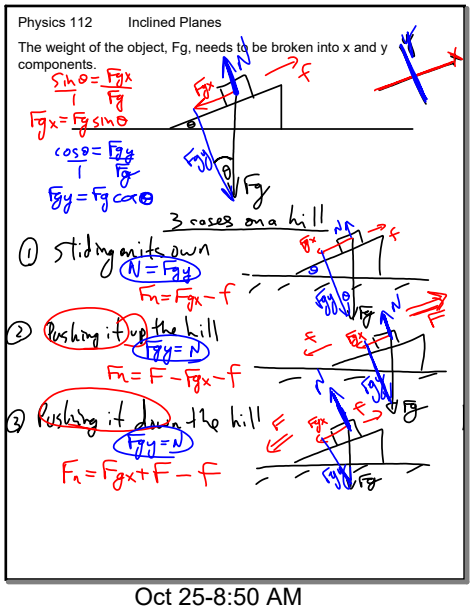
Physics 112 Inclined Planes
The weight of the object, Fg, needs to be broken into x and y components.
sinθ = Fgx / Fg
Fgx = Fg sinθ
cosθ = Fgy / Fg
Fgy = Fg cosθ
3 cases on a hill
① Sliding on its own
N = Fgy
Fn = Fgx − f
② Pushing it up the hill
Fgy = N
Fn = F − Fgx − f
③ Pushing it down the hill
Fgy = N
Fn = Fgx + F − f

Oct 25-8:50 AM