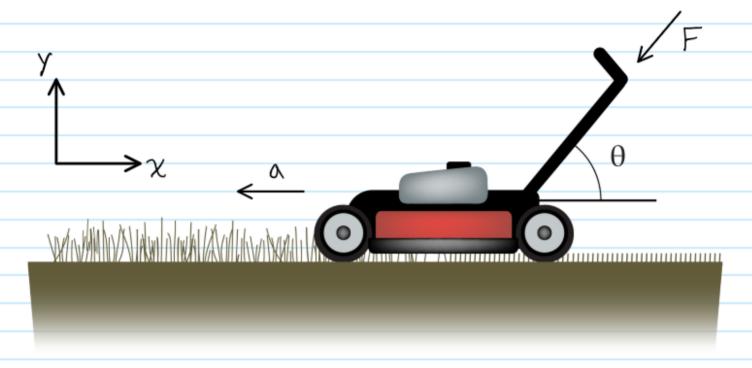
21-P-FA-GD-001



UBC Engineering

Its that time of year again... The grass on your lawn has grown and it needs to be cut.

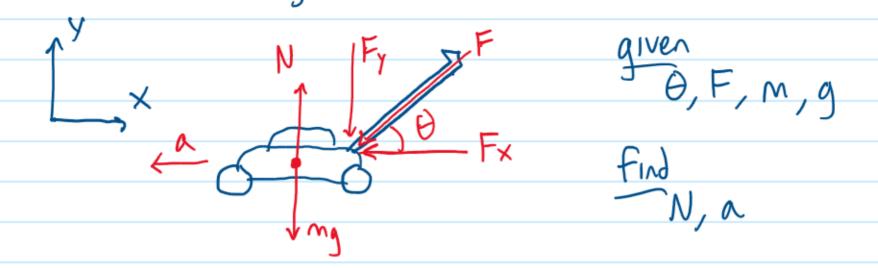
To pass the time faster, you decide to do a physics problem in your head.

You are pushing your mover with a force of E.

The nower has a mass of m and the nower hardle extends at an angle of Q above the horizontal.

What is the acceleration of the nower?

(Assume g= 9.81 m/s2 and ignore friction).



break Finto its x k y components

Fx = - Fcos B

Fy = - Fsin 0

Force Equilibrium

ZFx = -Fx = Ma

 $\Delta = \frac{-F_{\times}}{M}$

no acceleration on y direction

ZFy= N-mg-Fy=mg

N= mg+Fy