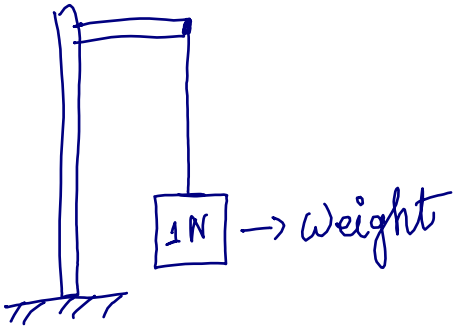
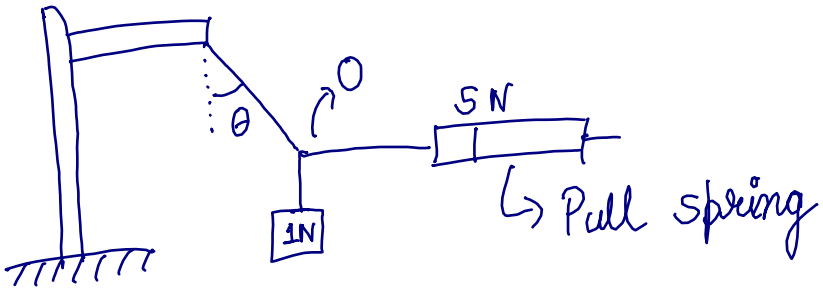
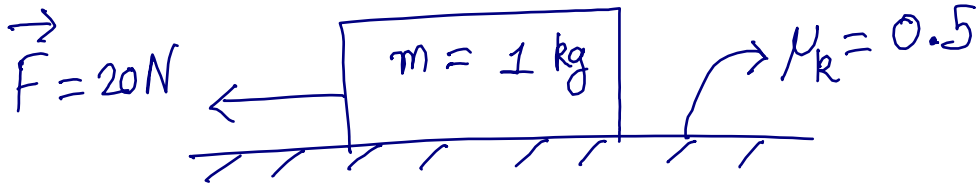
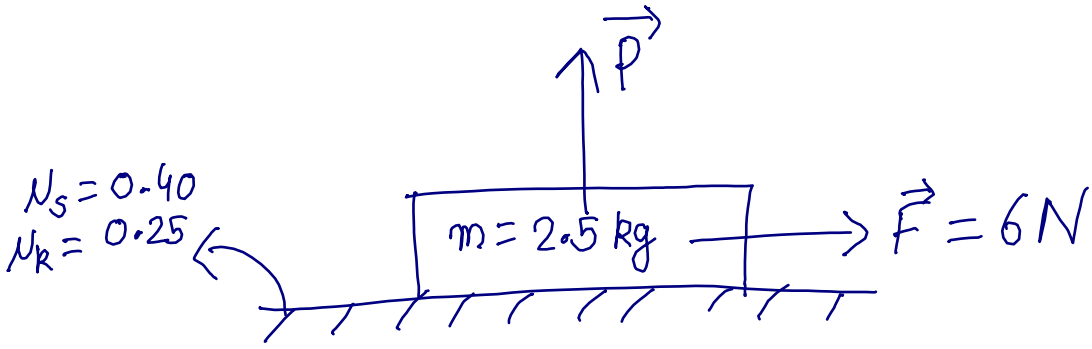
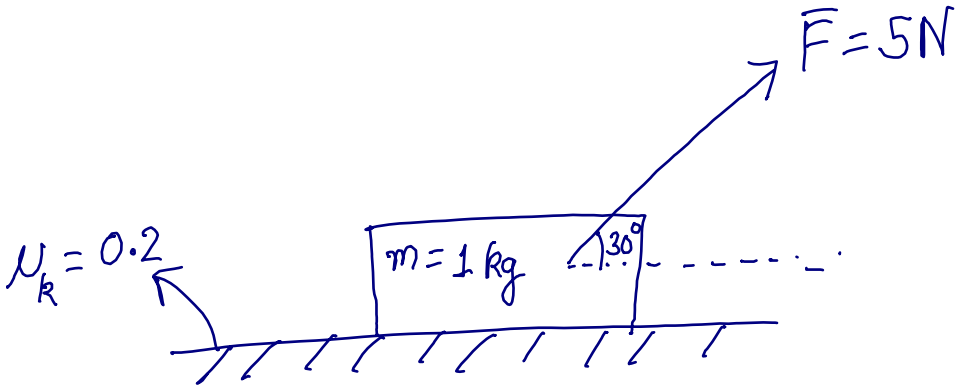

1N
→ weight


θ
O
5N
1N
↳ Pull spring

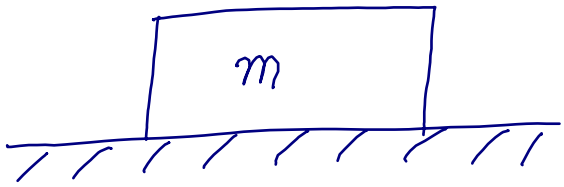

$\vec{F} = 20N$
$m = 1\ kg$
$\mu_k = 0.5$

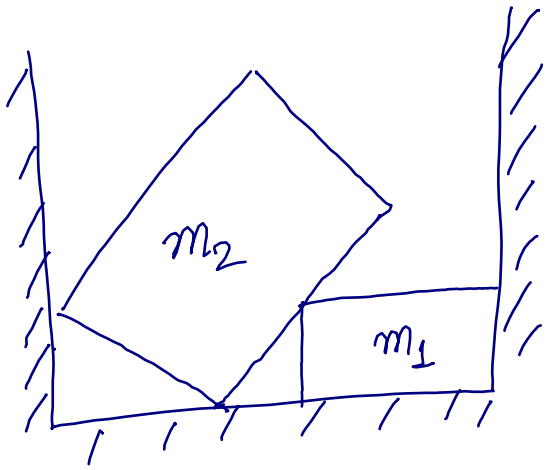

$\vec{P}$
$\mu_s = 0.40$
$\mu_k = 0.25$
$m = 2.5\ kg$
$\vec{F} = 6N$

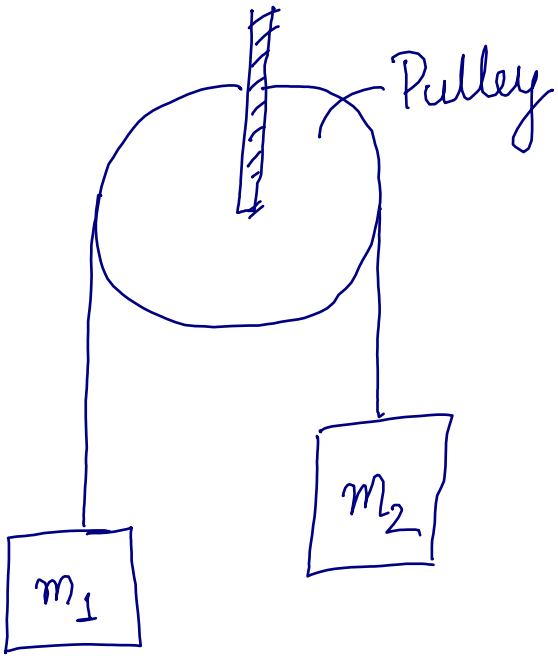

$\vec{F} = 5N$
$\mu_k = 0.2$
$m = 1\ kg$
30°

Make up Assignment #1

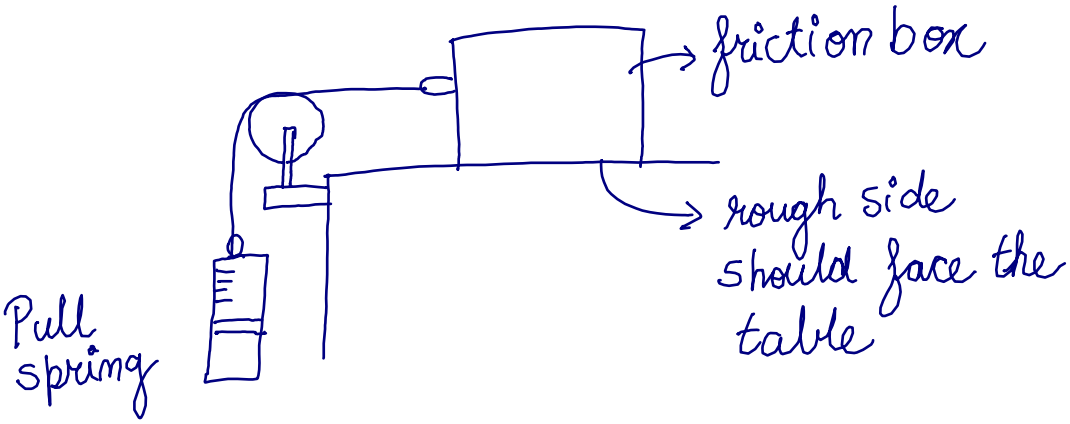
Draw the free body diagrams (FBD) corresponding to the following physical systems. Assume the gravitational force but no friction.



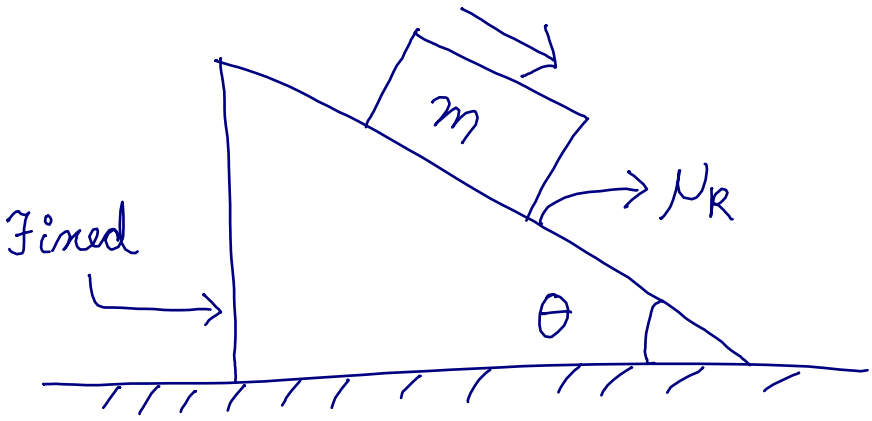




Coefficient of friction



Inclined plane problems



Work energy experiment