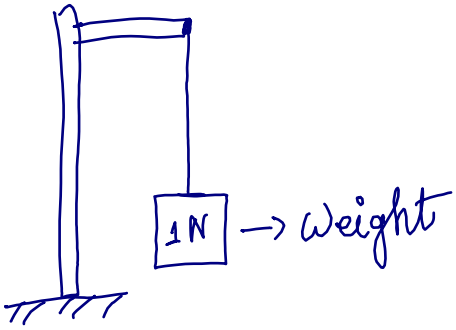
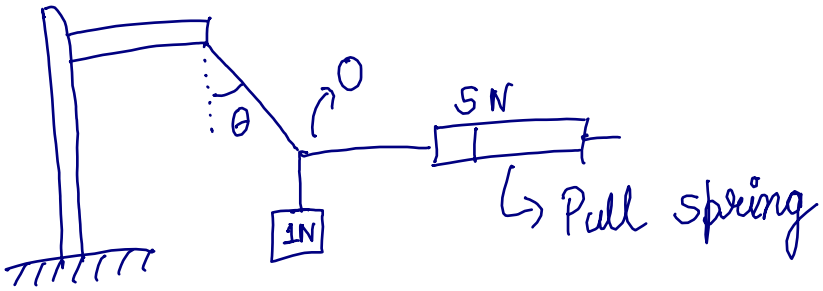
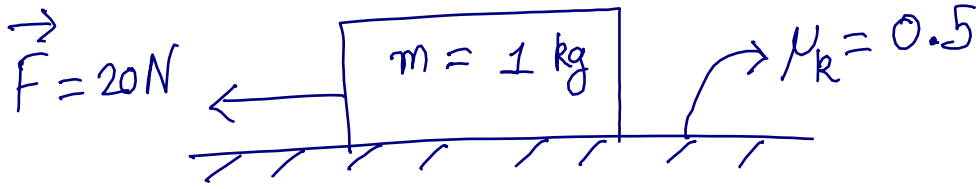
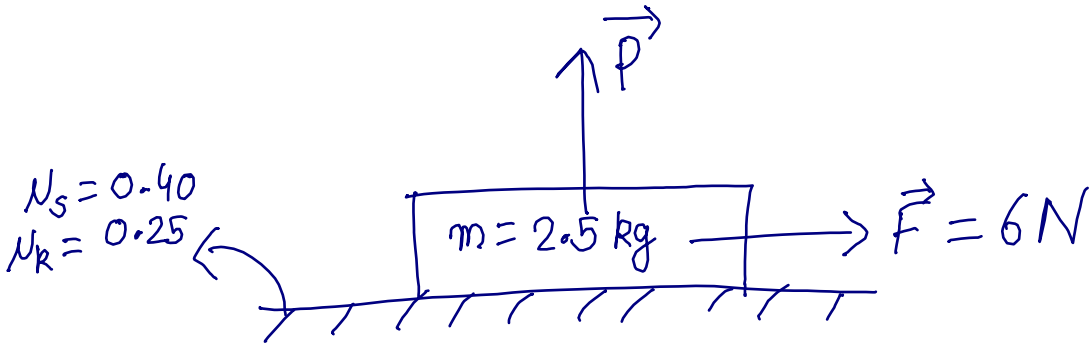
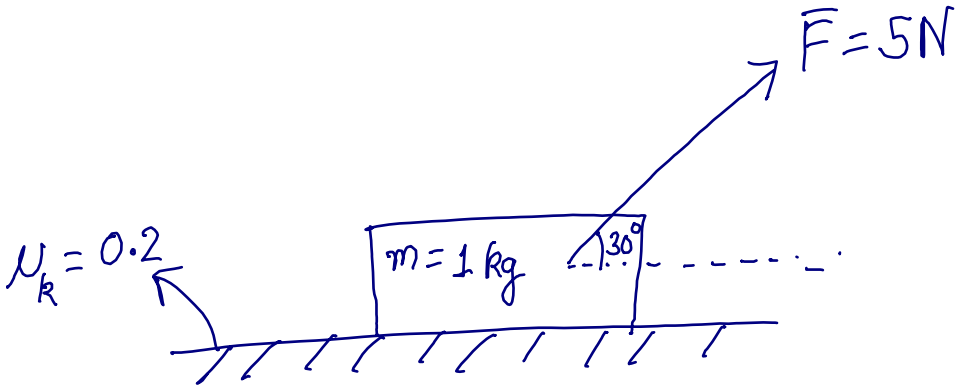

1N
→ weight


θ
O
5N
1N
↳ Pull spring

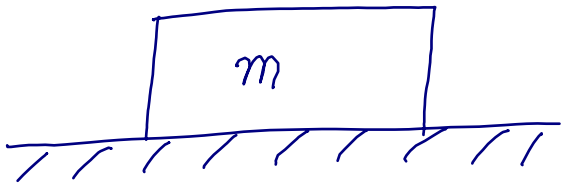

$\vec{F} = 20N$
$m = 1\ kg$
$\mu_k = 0.5$

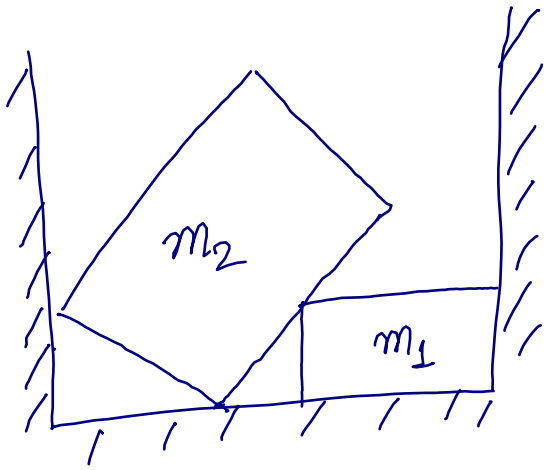

$\vec{P}$
$\mu_s = 0.40$
$\mu_k = 0.25$
$m = 2.5\ kg$
$\vec{F} = 6N$

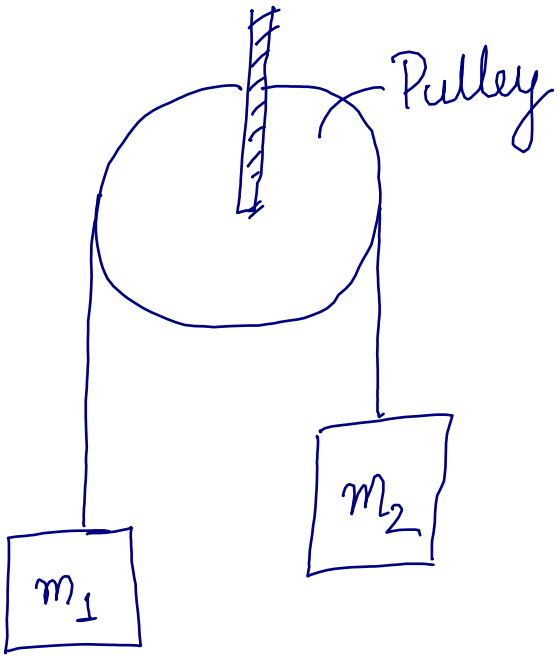

$\vec{F} = 5N$
$\mu_k = 0.2$
$m = 1\ kg$
30°

Make up Assignment #1

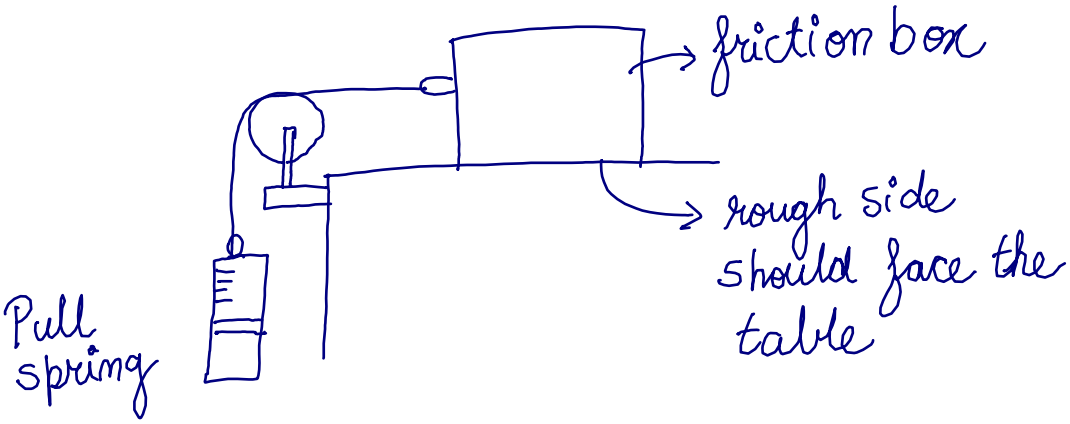
Draw the free body diagrams (FBD) corresponding to the following physical systems. Assume the gravitational force but no friction.



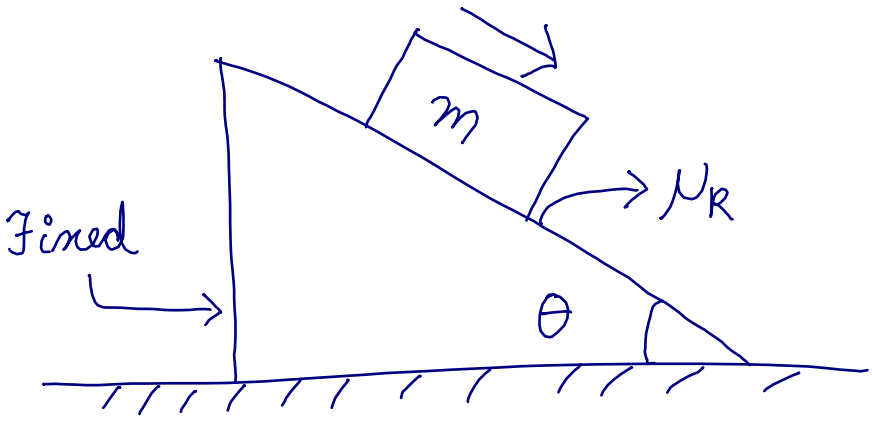




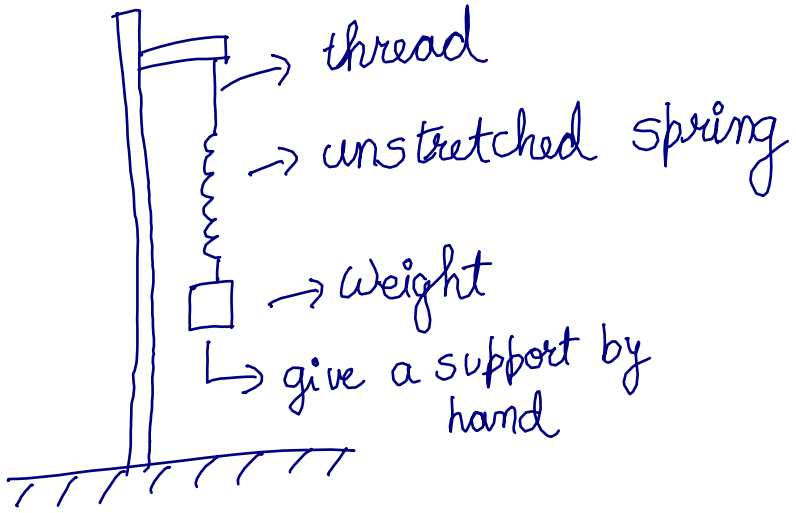
Coefficient of friction

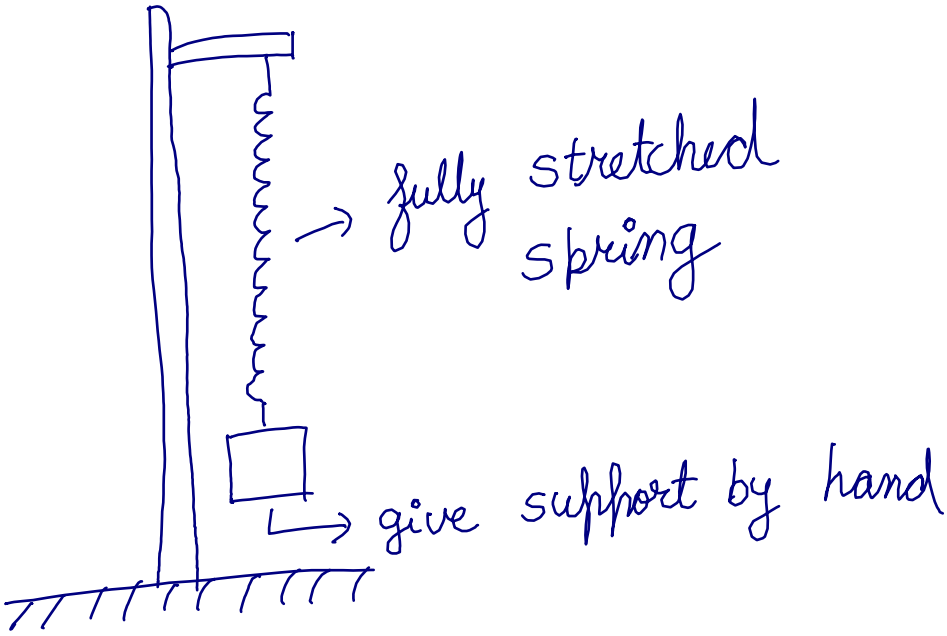


Inclined plane problems

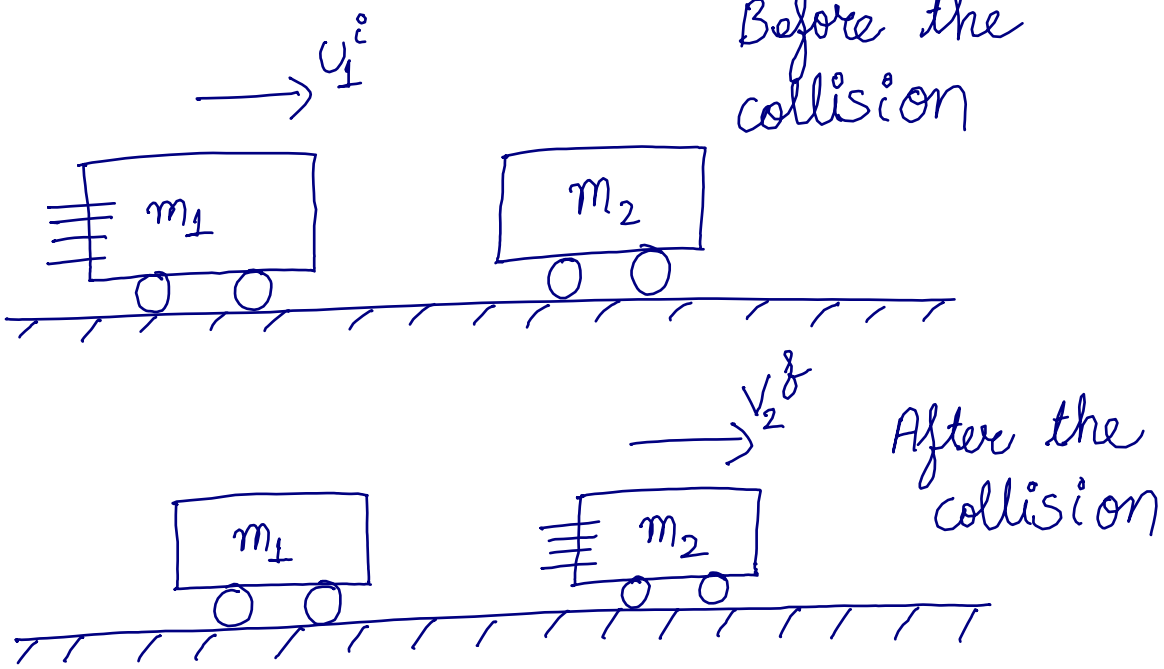


Work energy experiment

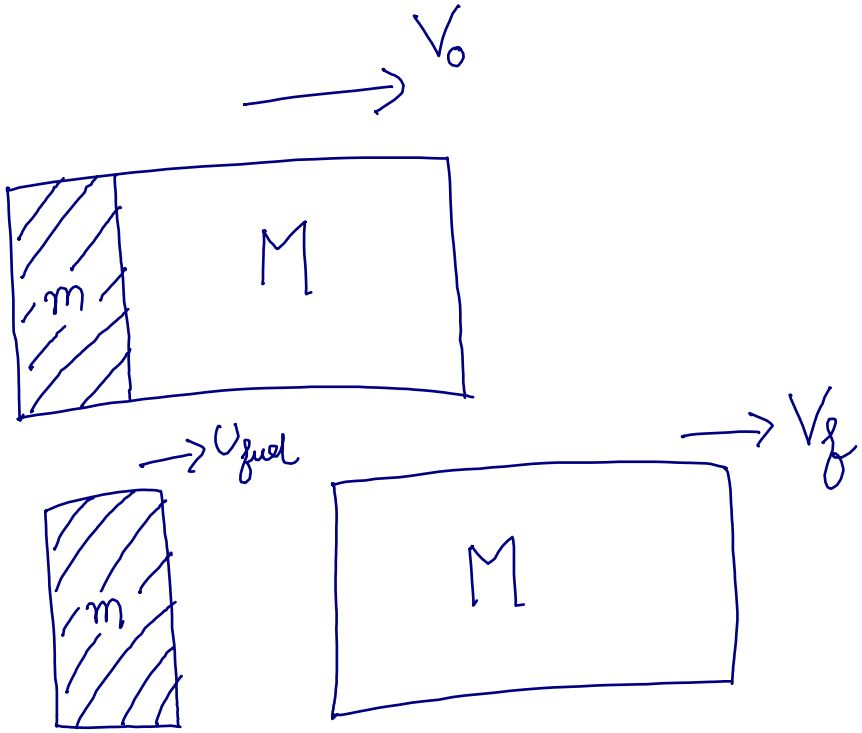




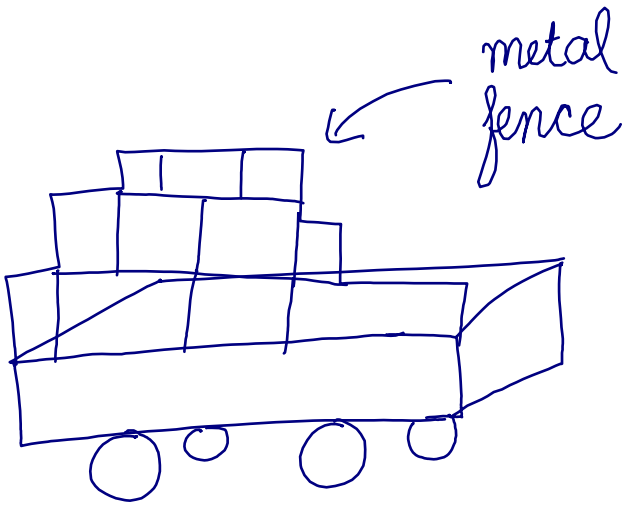
Collision!

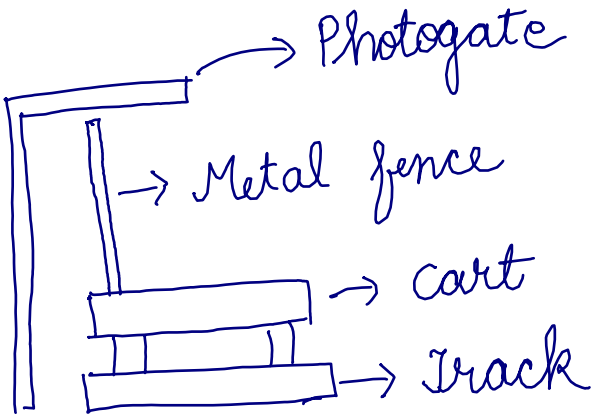


Rockets

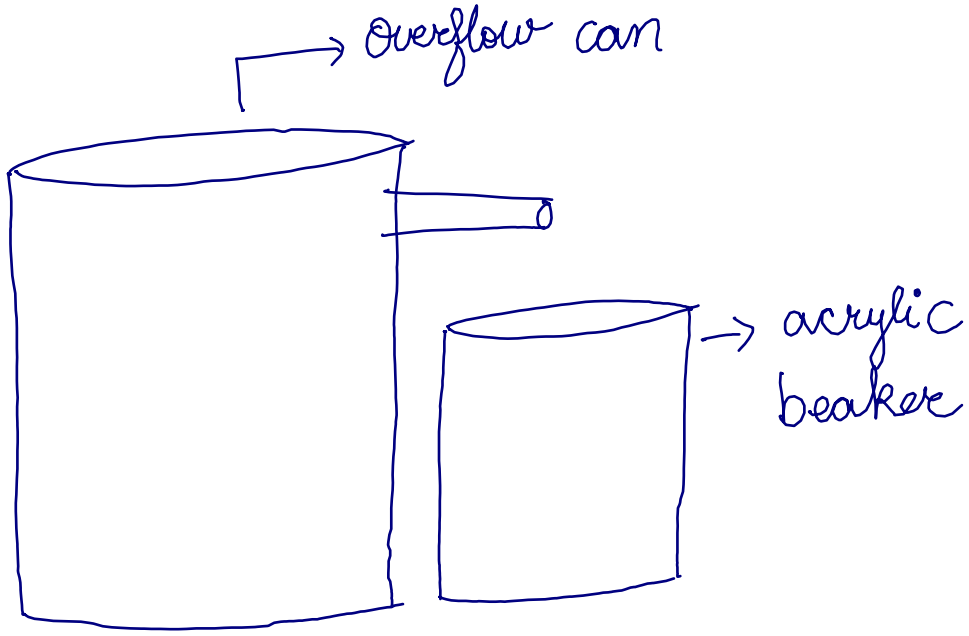


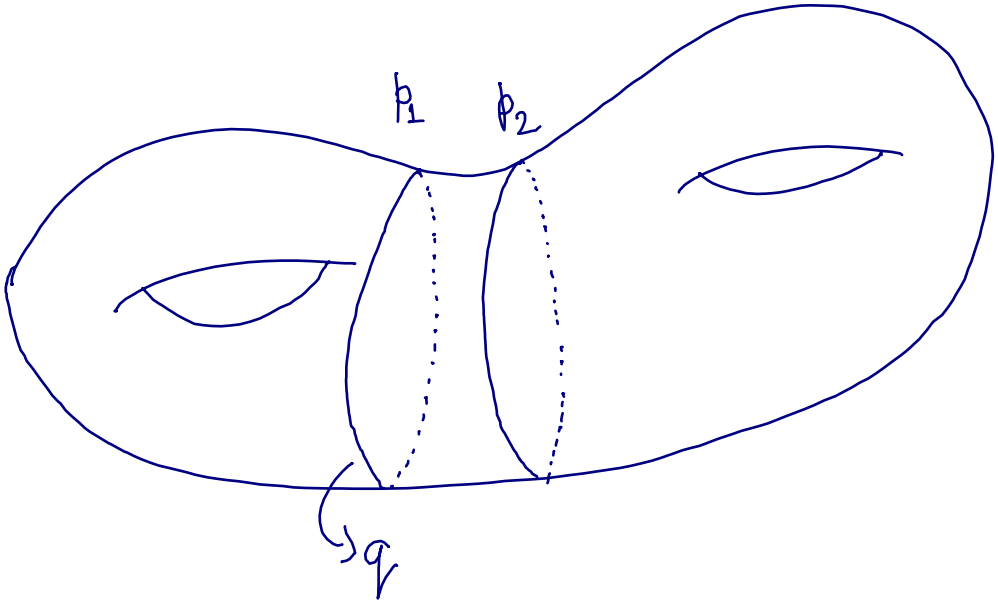
Experiment Collision

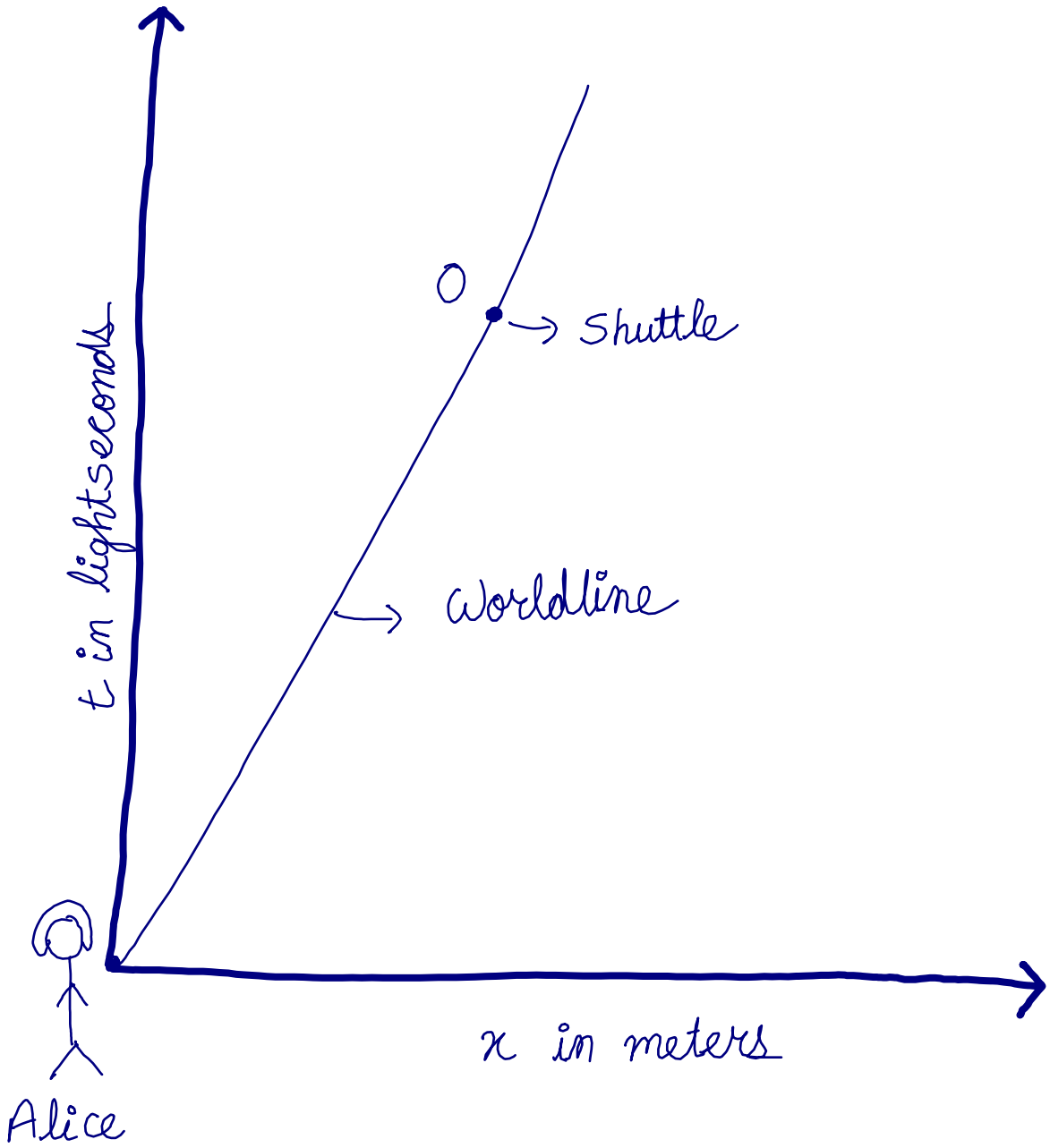




Experiment Archamedis principle




p_1
p_2
q


t in lightseconds
O
Shuttle
Worldline
x in meters
Alice