

## OF MOTION AWS

Newtonian Mechanics 1642-1727

Force is that cause which changes the state of the body SI unit => Newton cas unit => Dyne

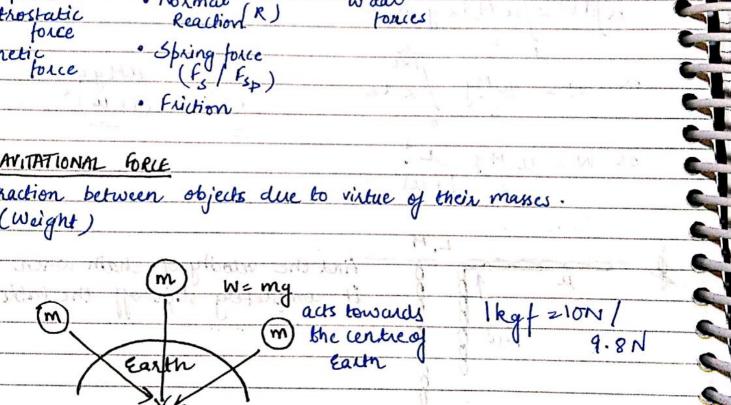
Force is a vector quantity

Non-contact Contact Electromagnetic Weak Nuclear force POLCE force · Tension (T) · Gravitational Van der

- force · Normal R) · Electrostatic
- force · Magnetic force · Spring force (fs / Fsp)
  - · Fuction

GRAVITATIONAL GREE

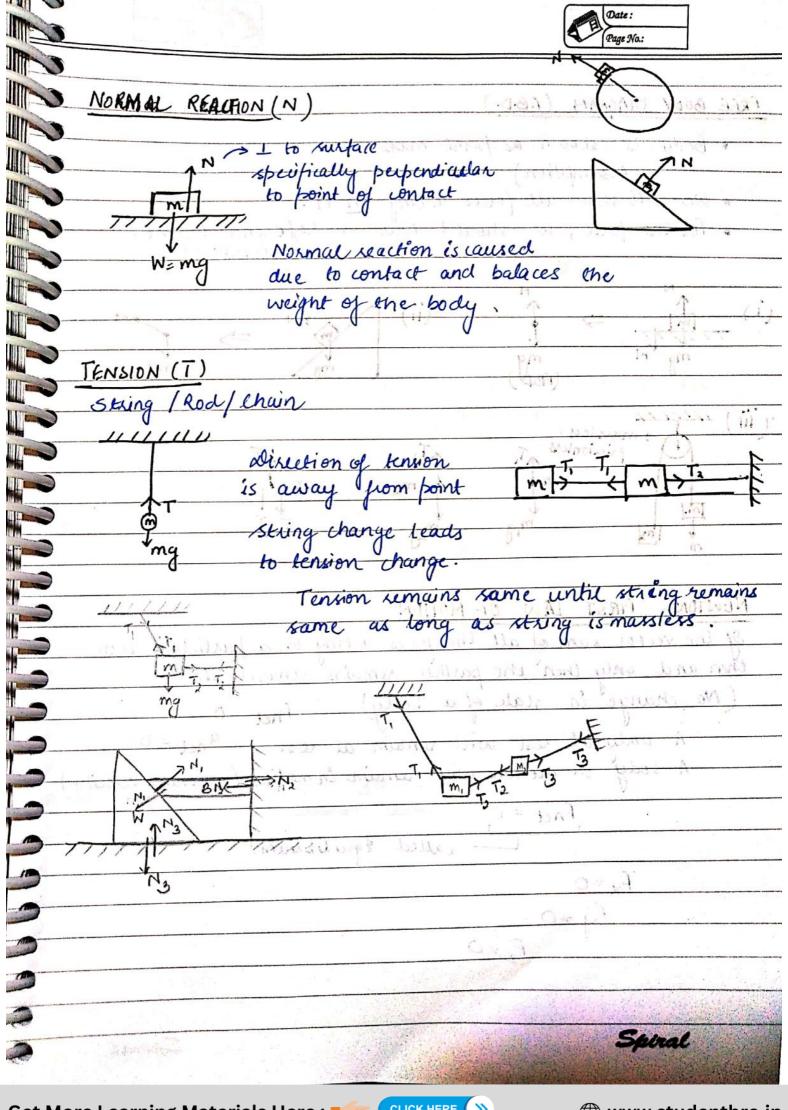
Attraction between objects due to virtue of their masses. (weight)

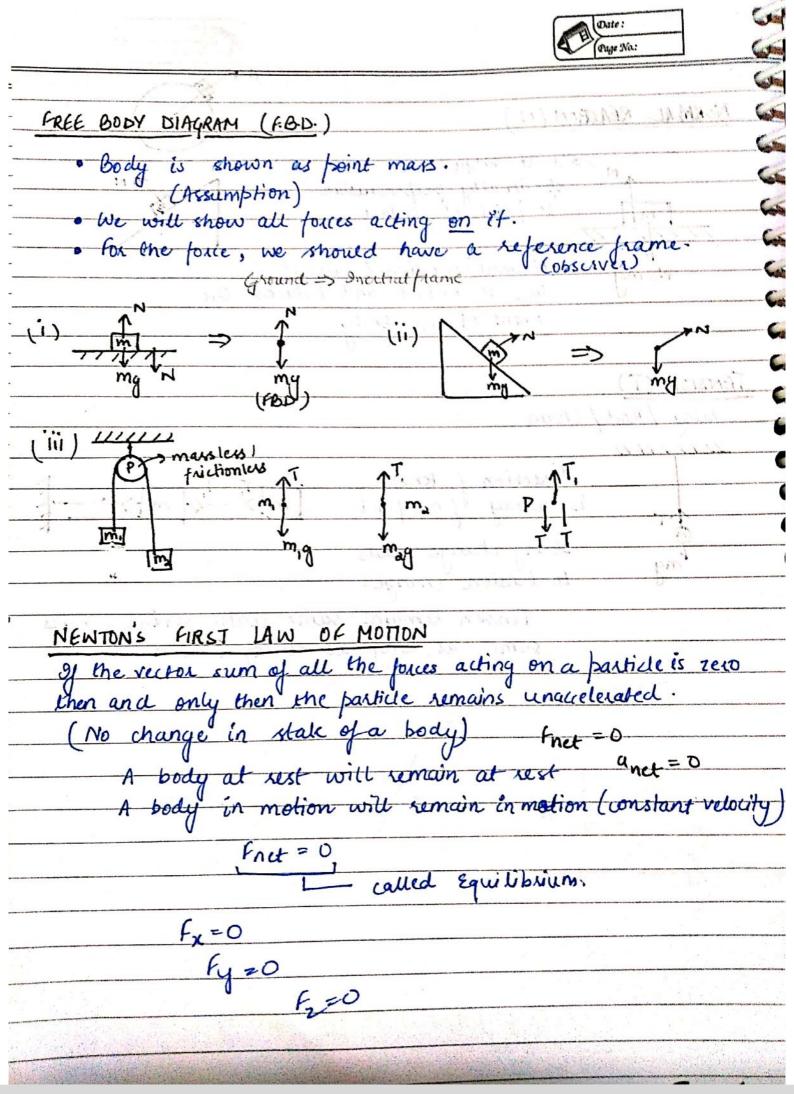


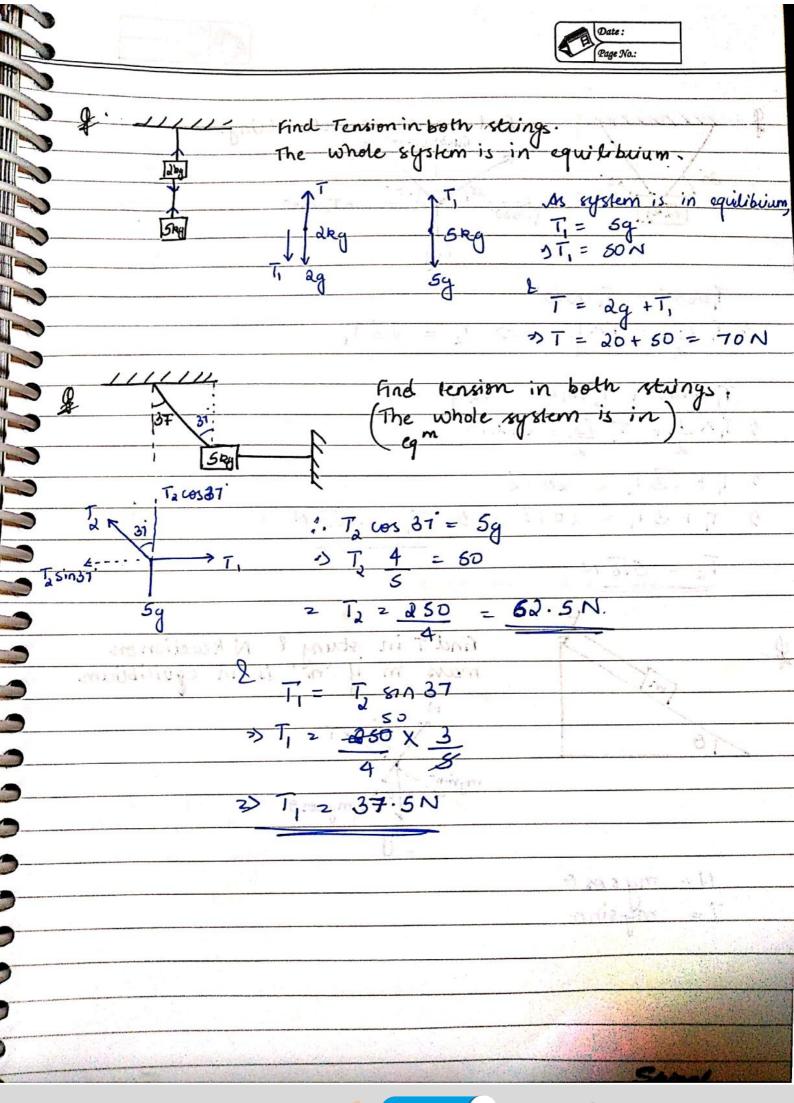
waal

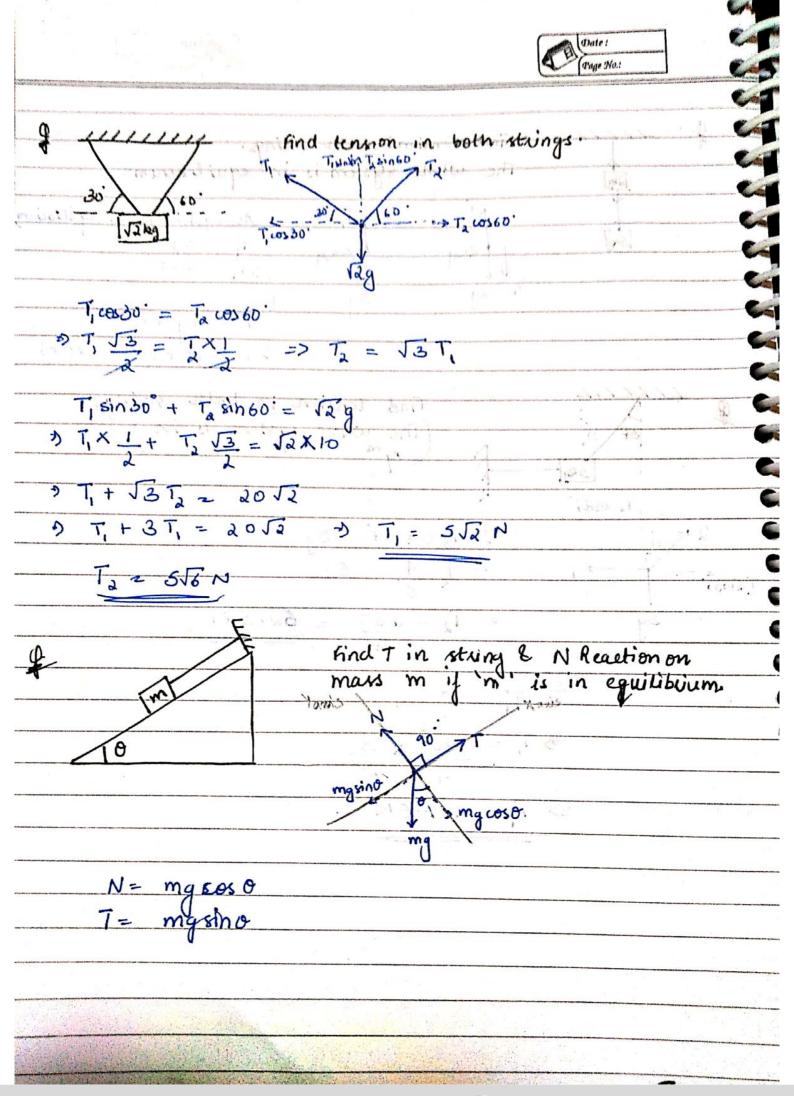
fonces

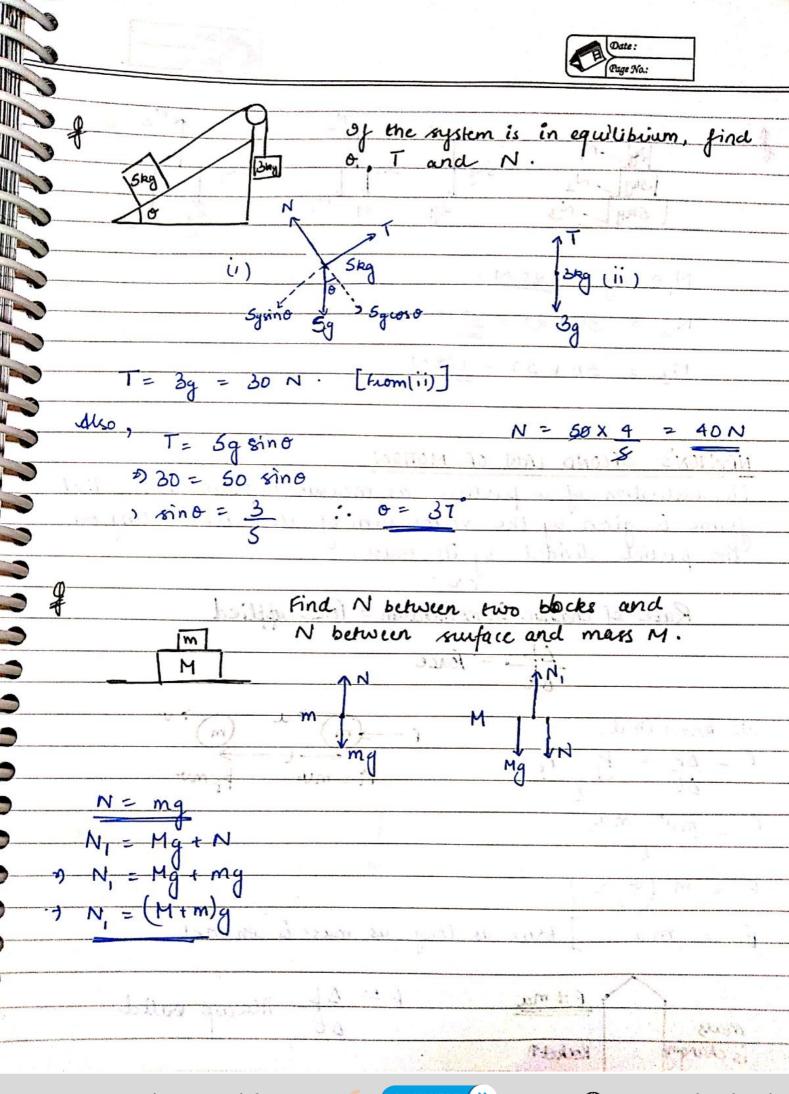
Spiral

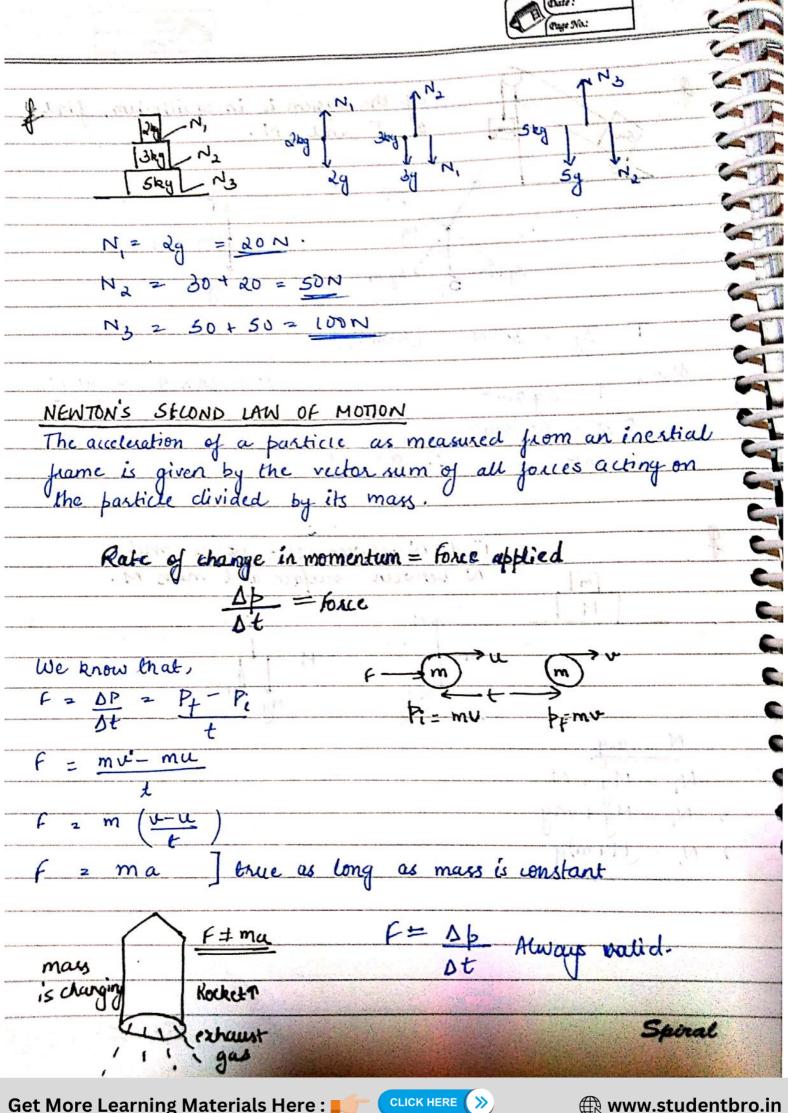


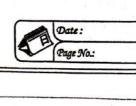


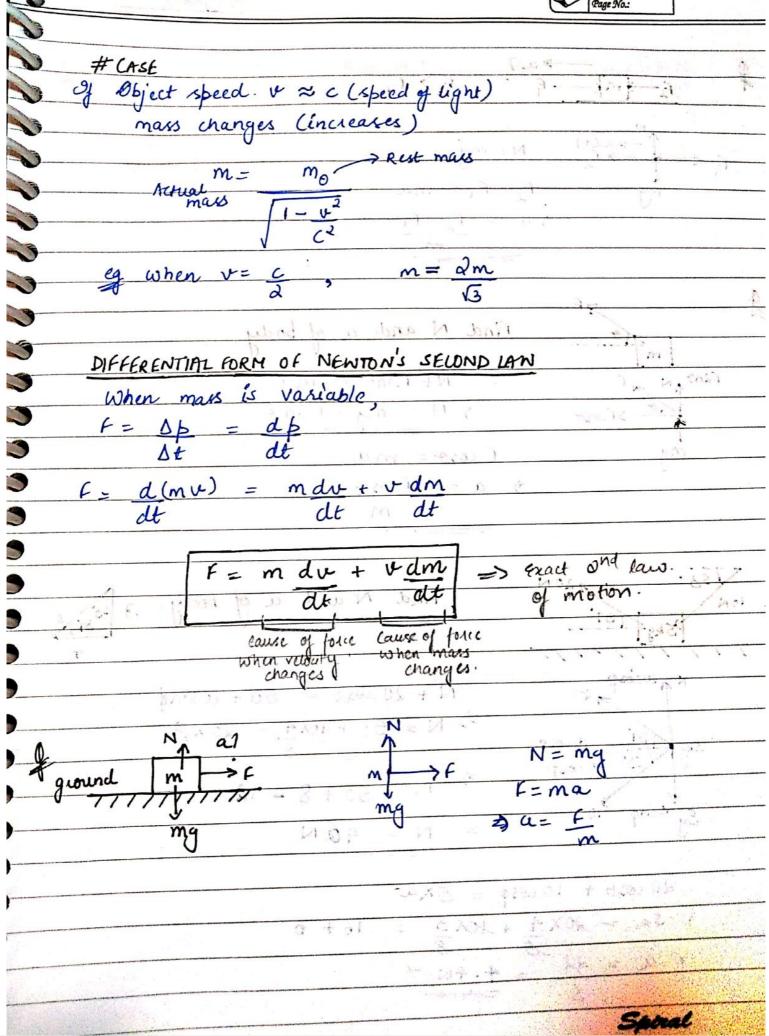


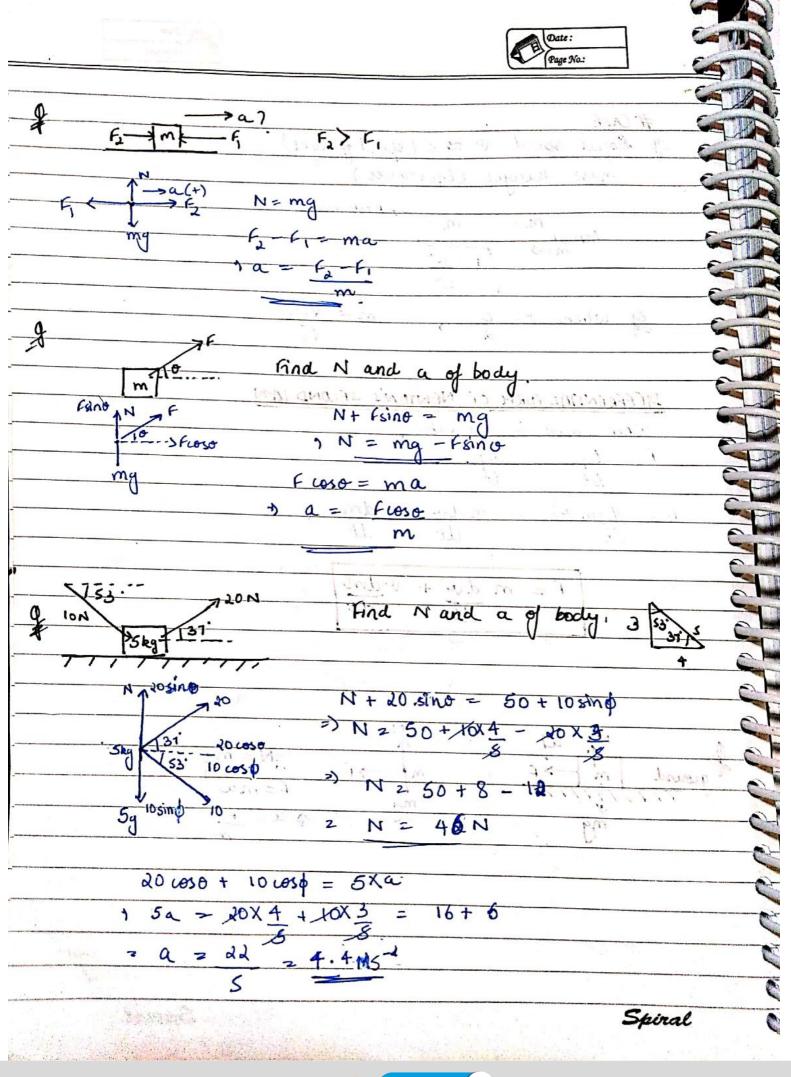


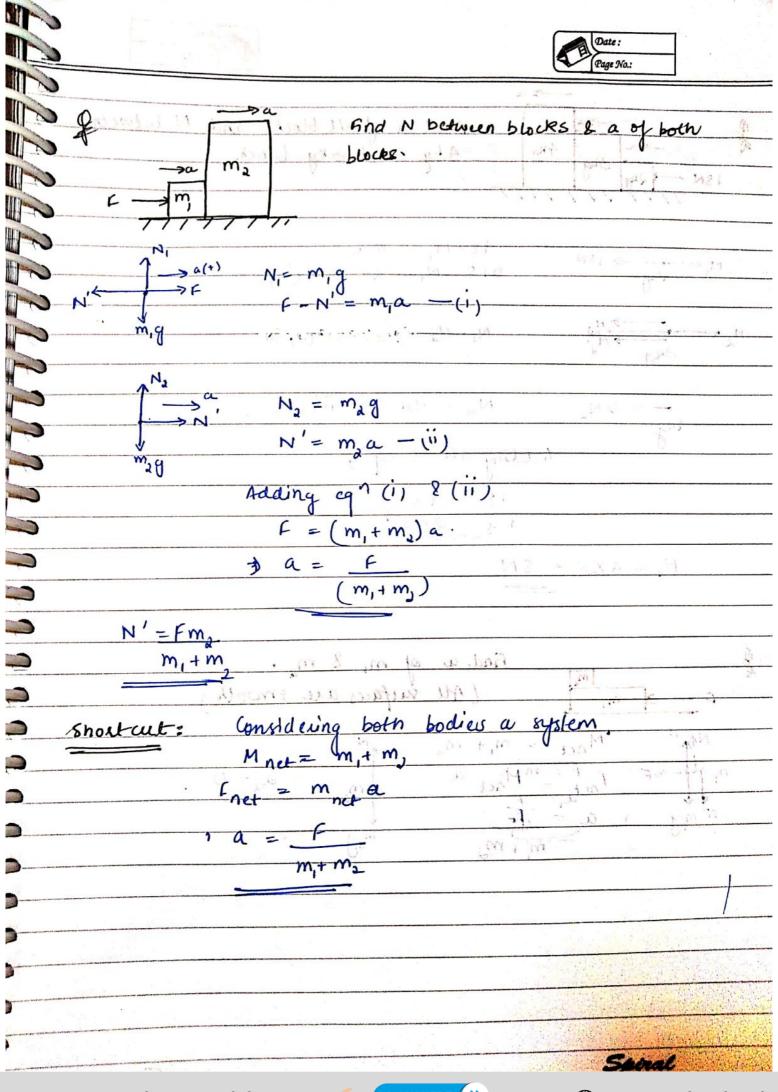




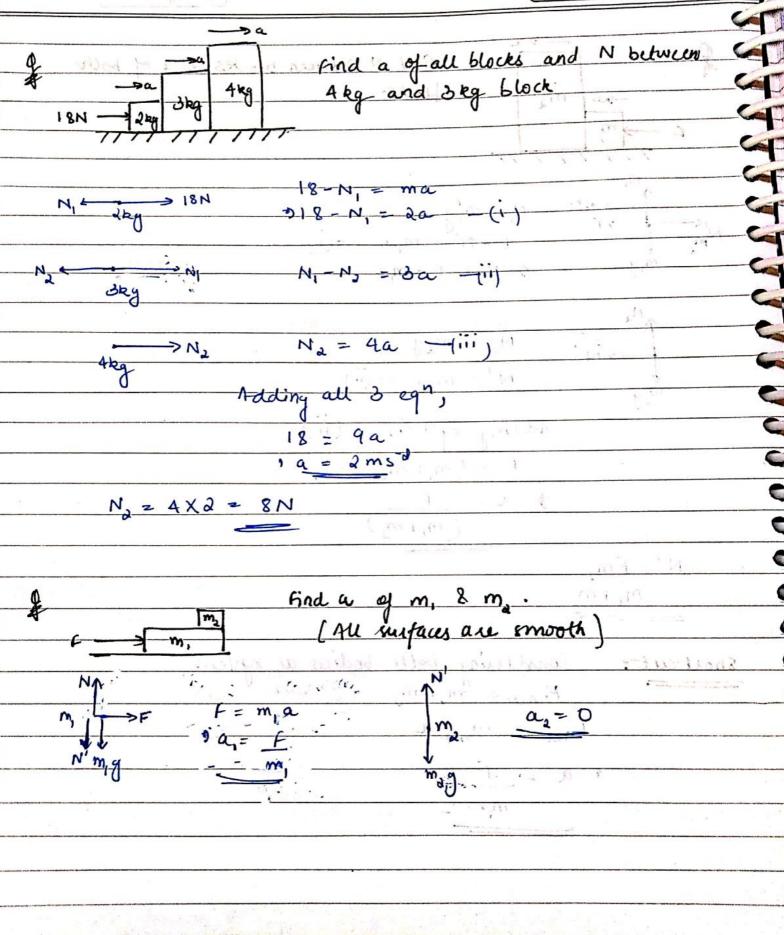




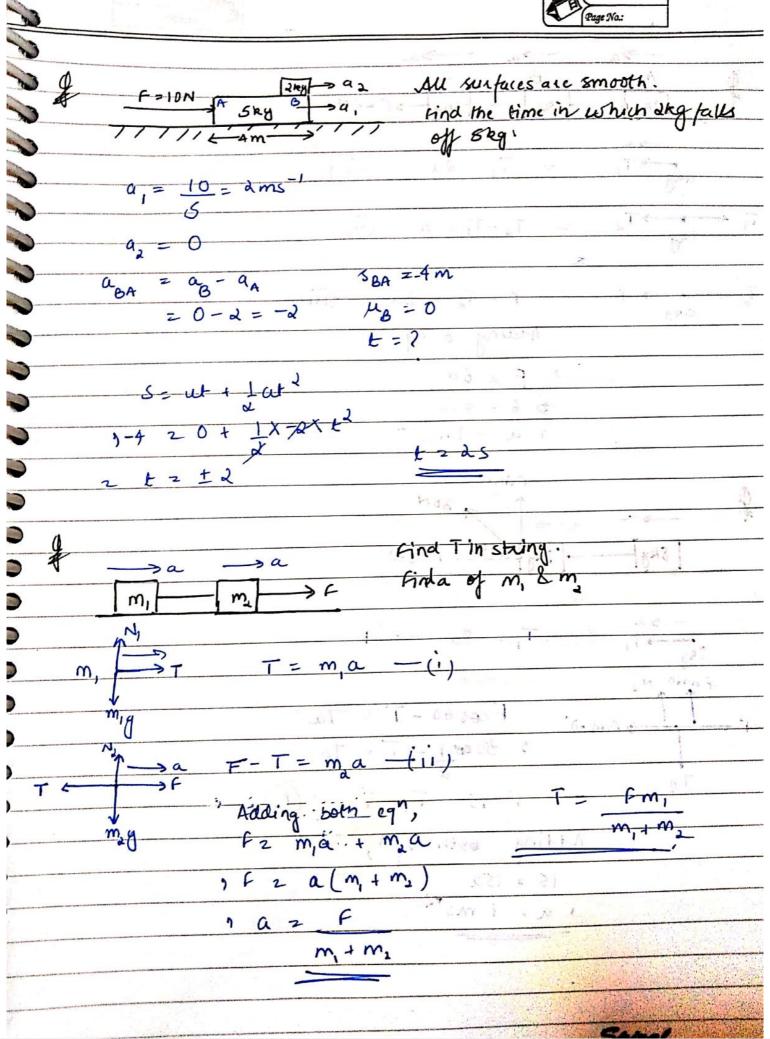




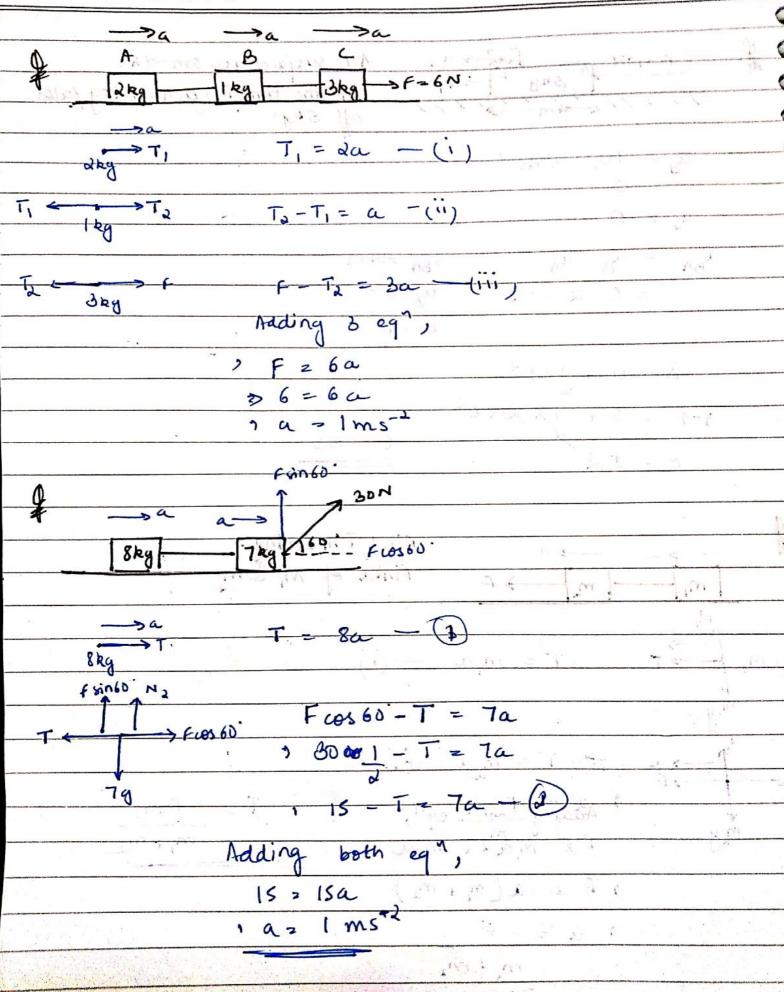




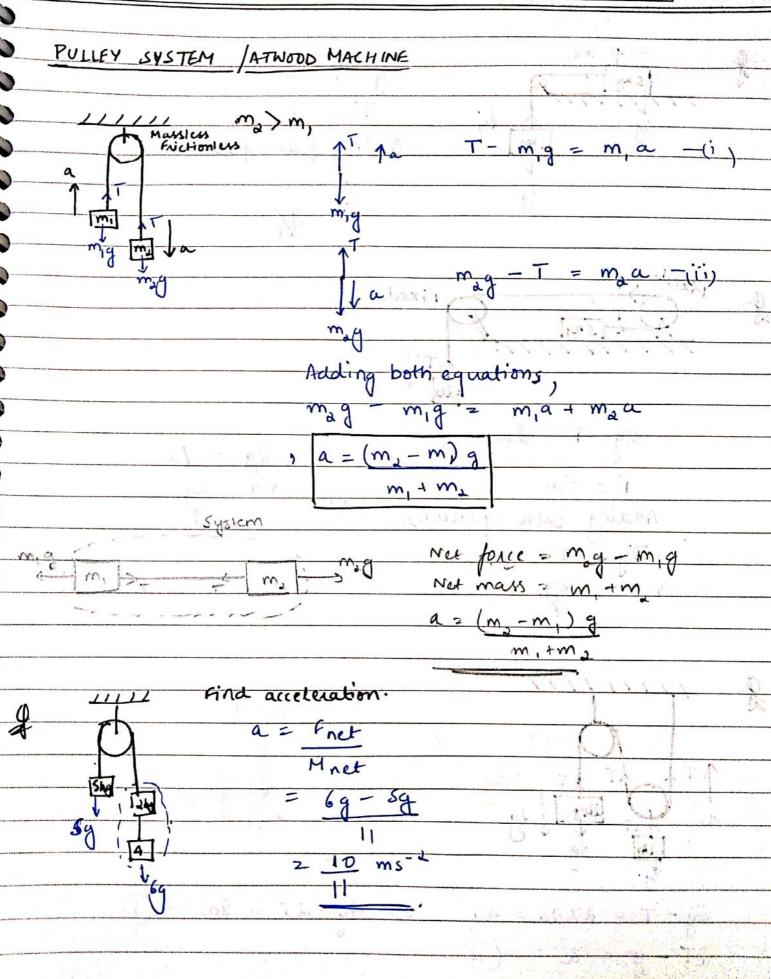


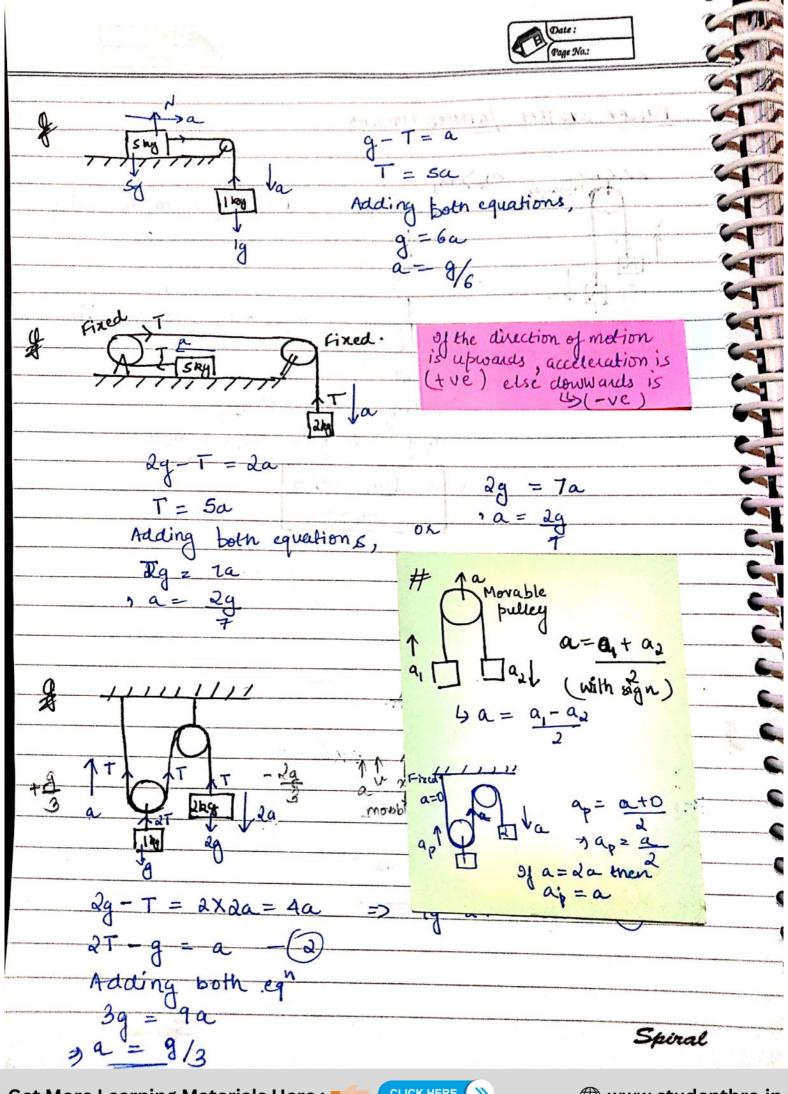


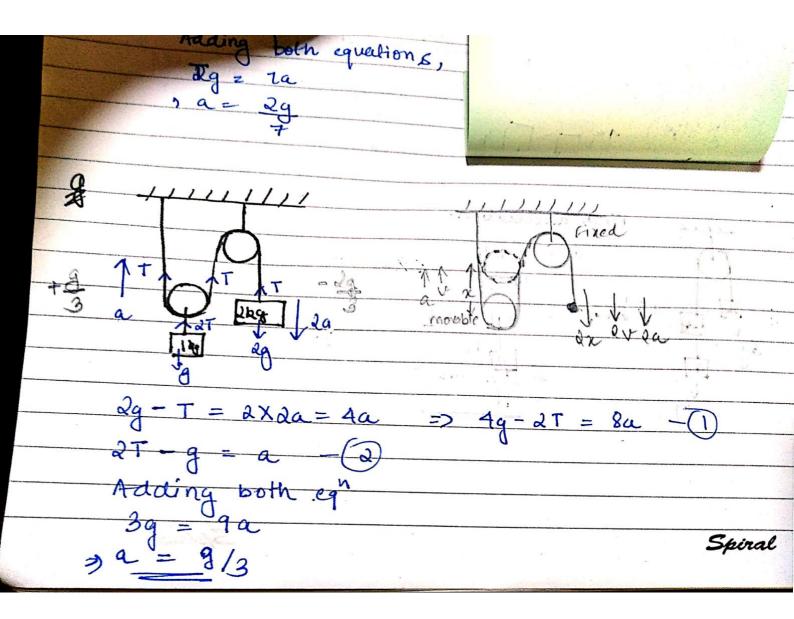




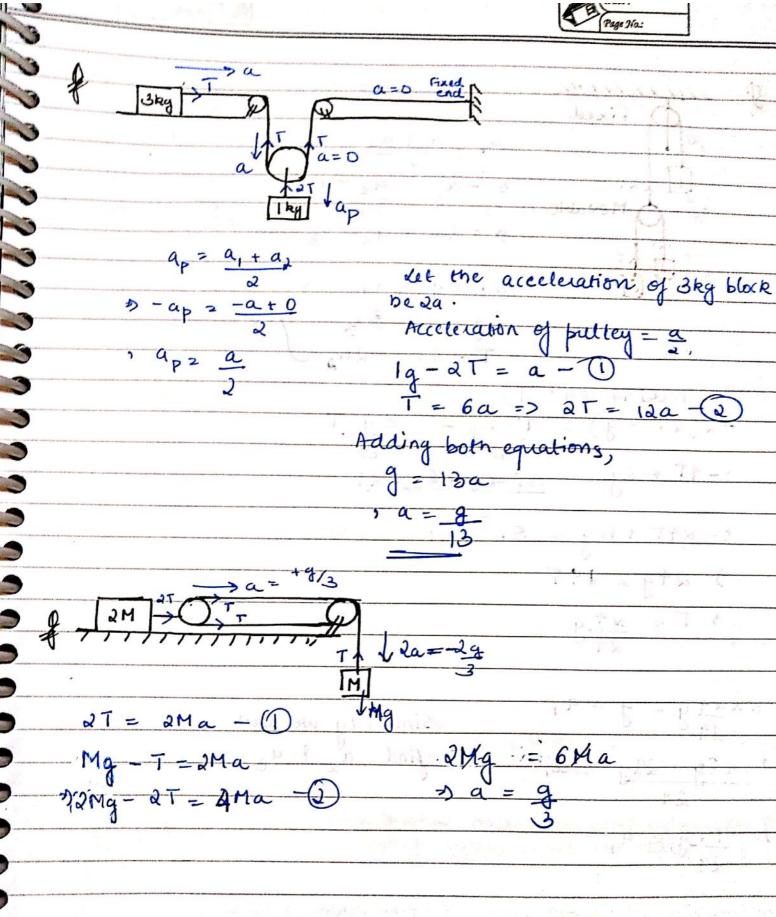




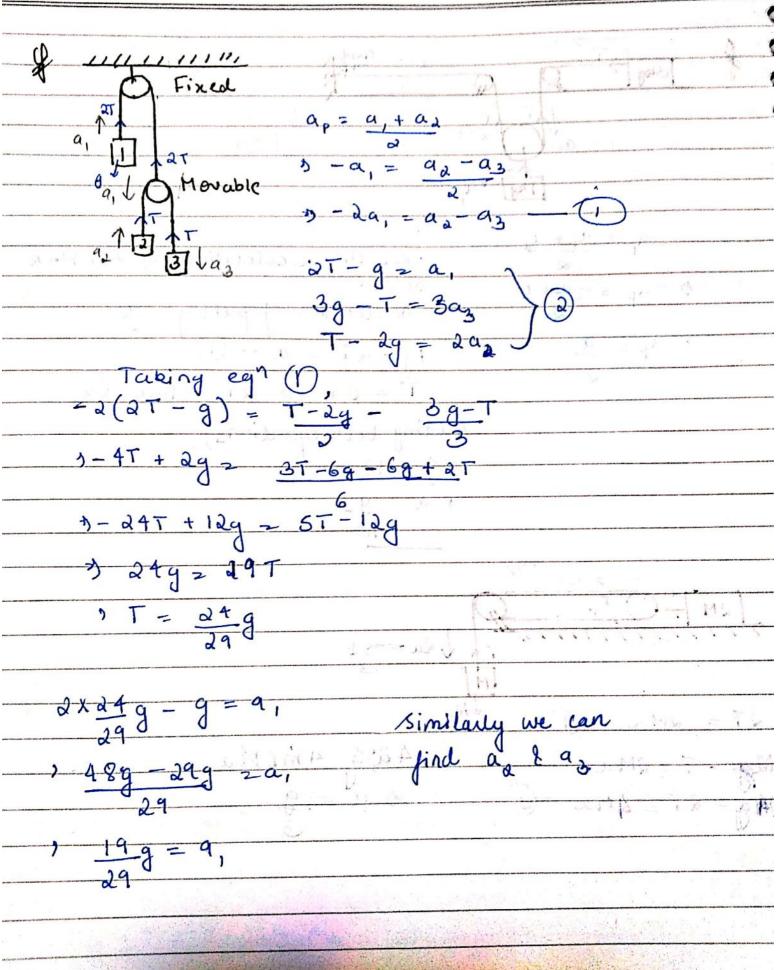




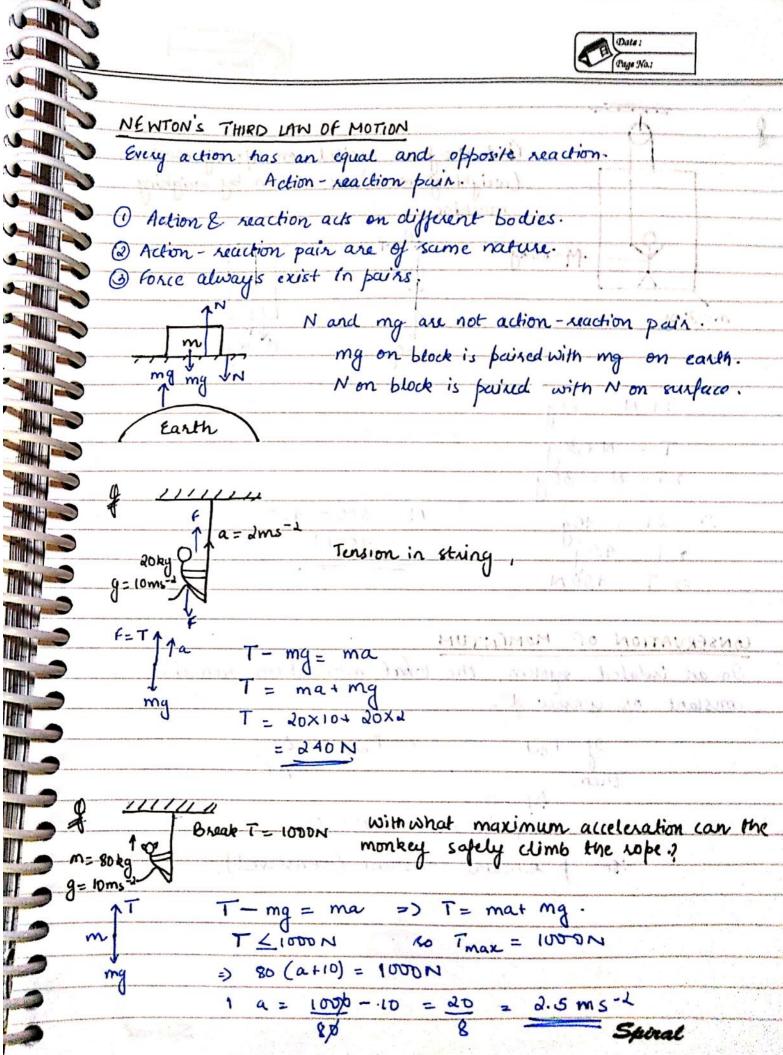






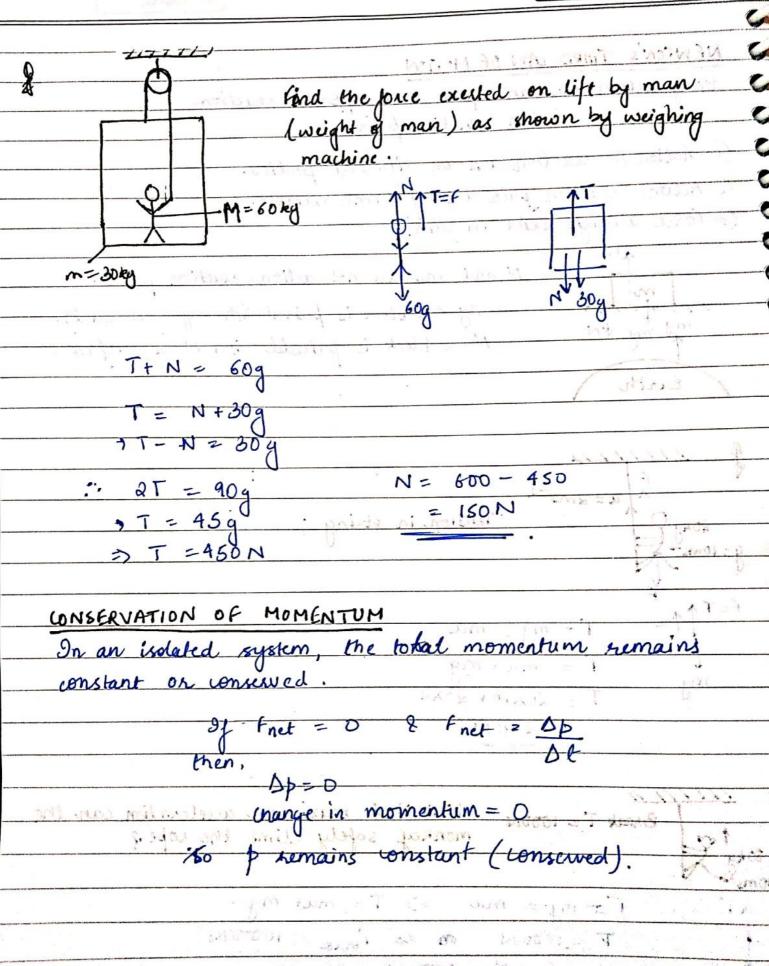




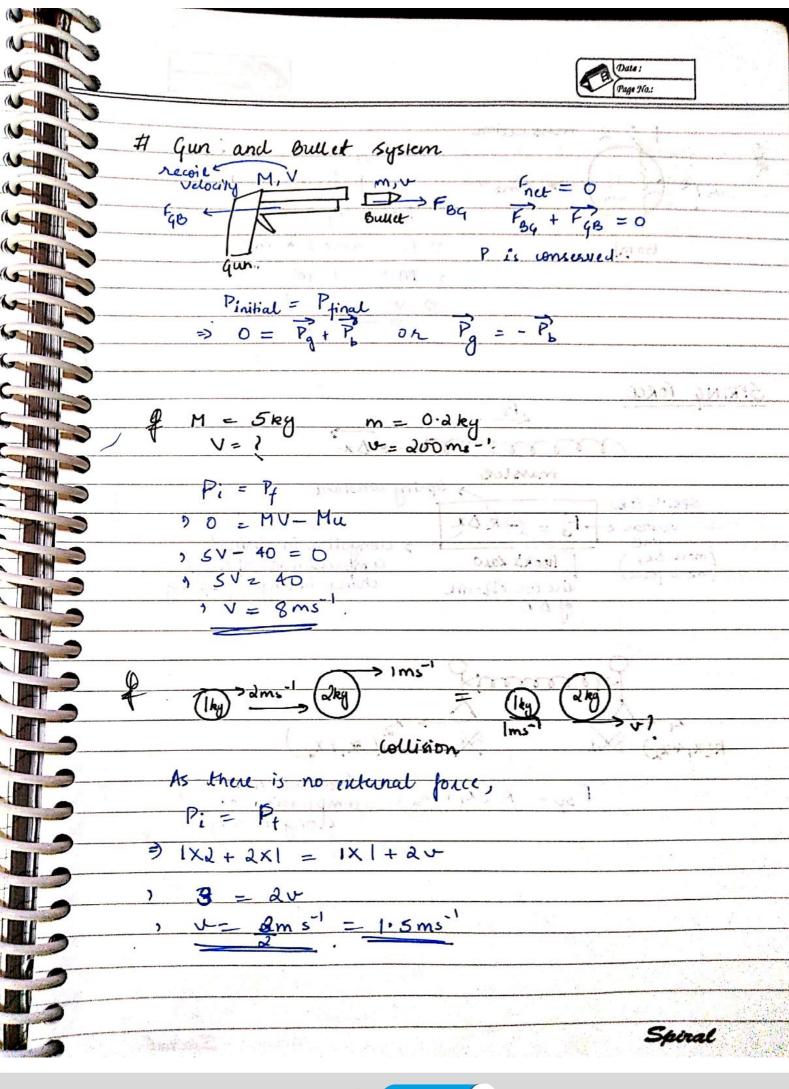


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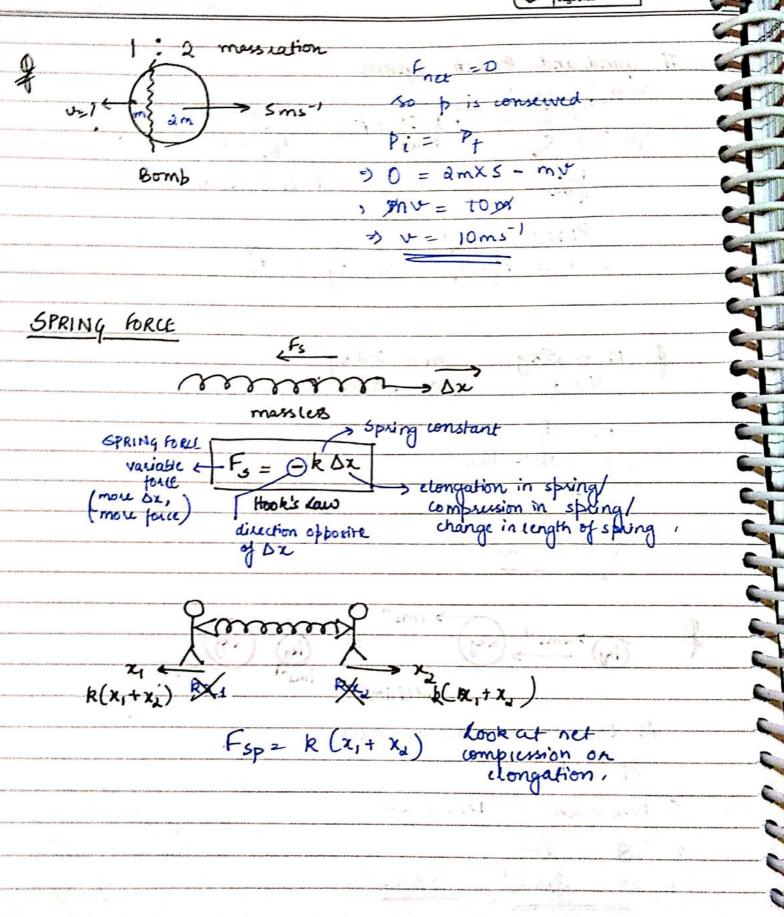


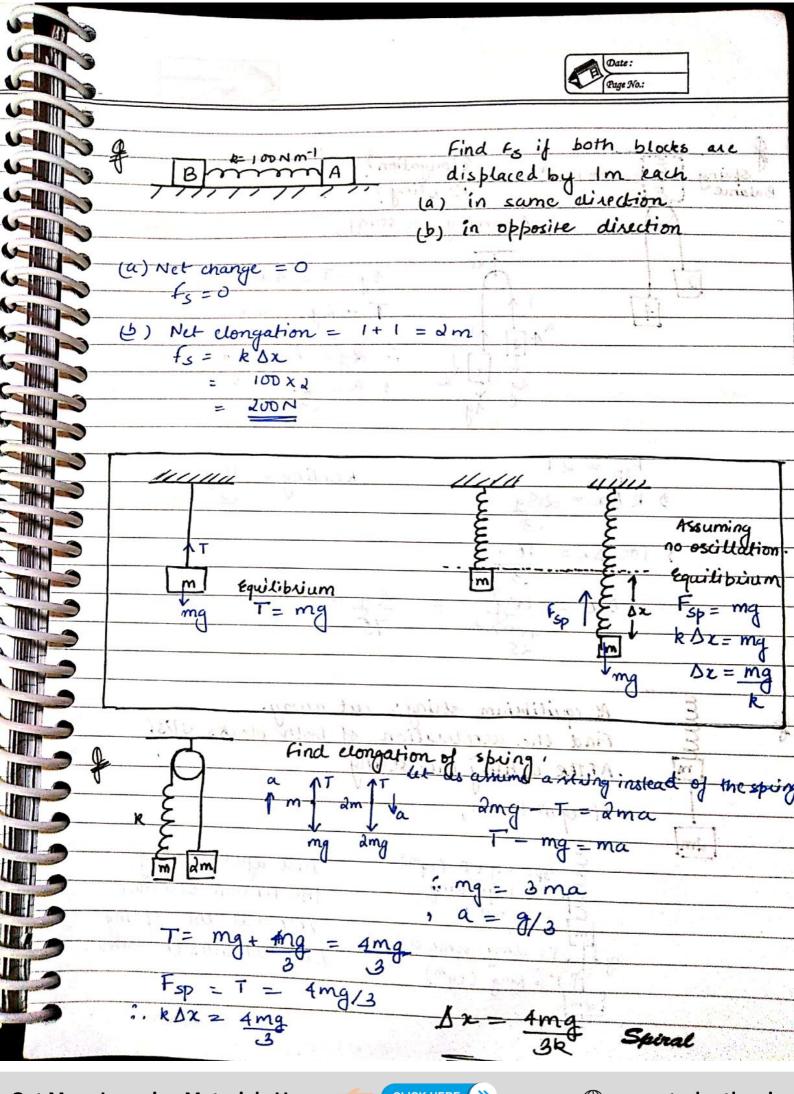


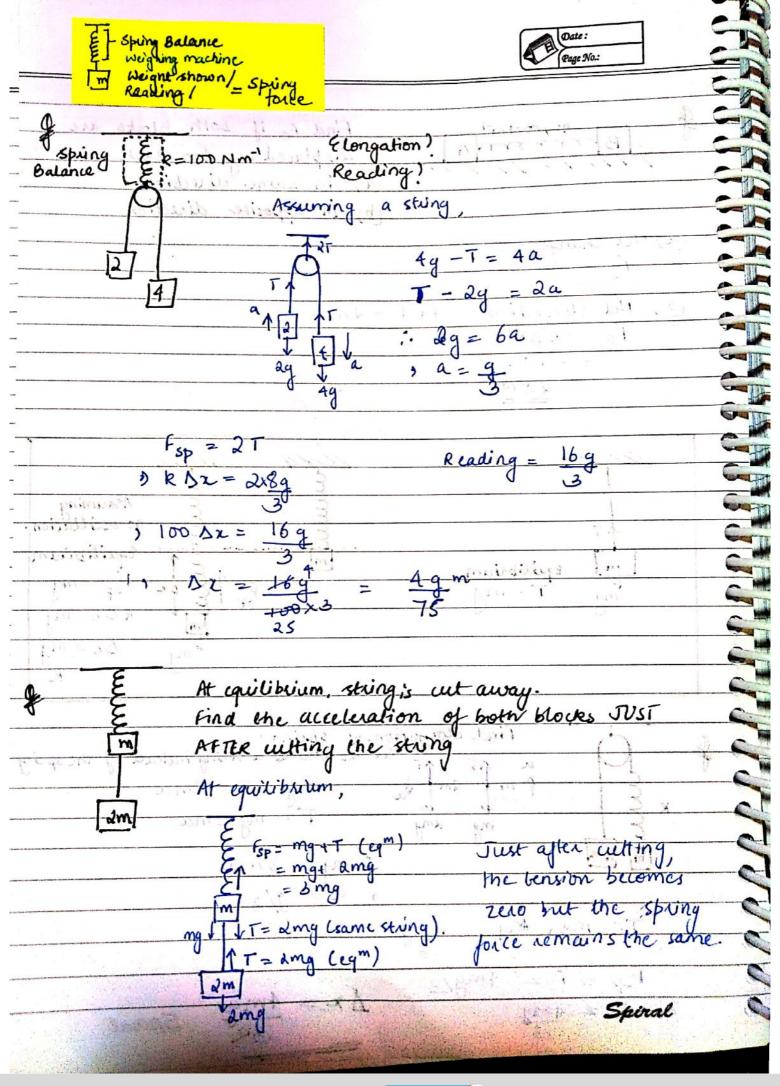
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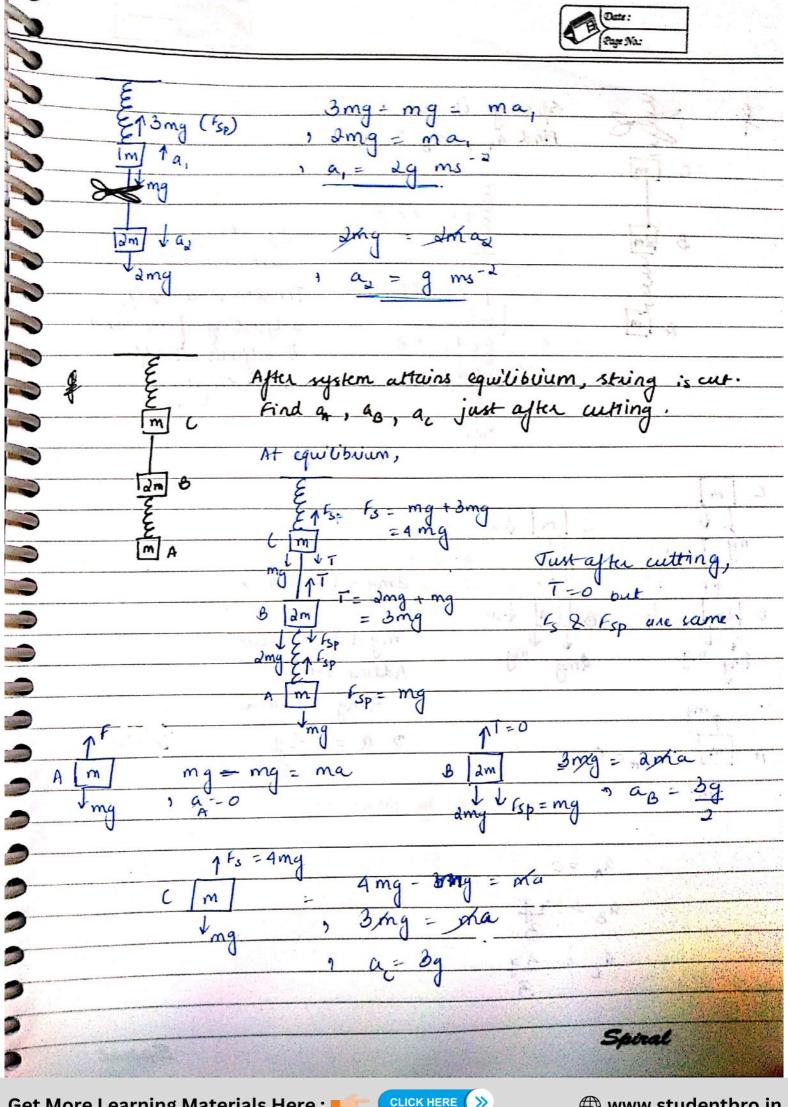


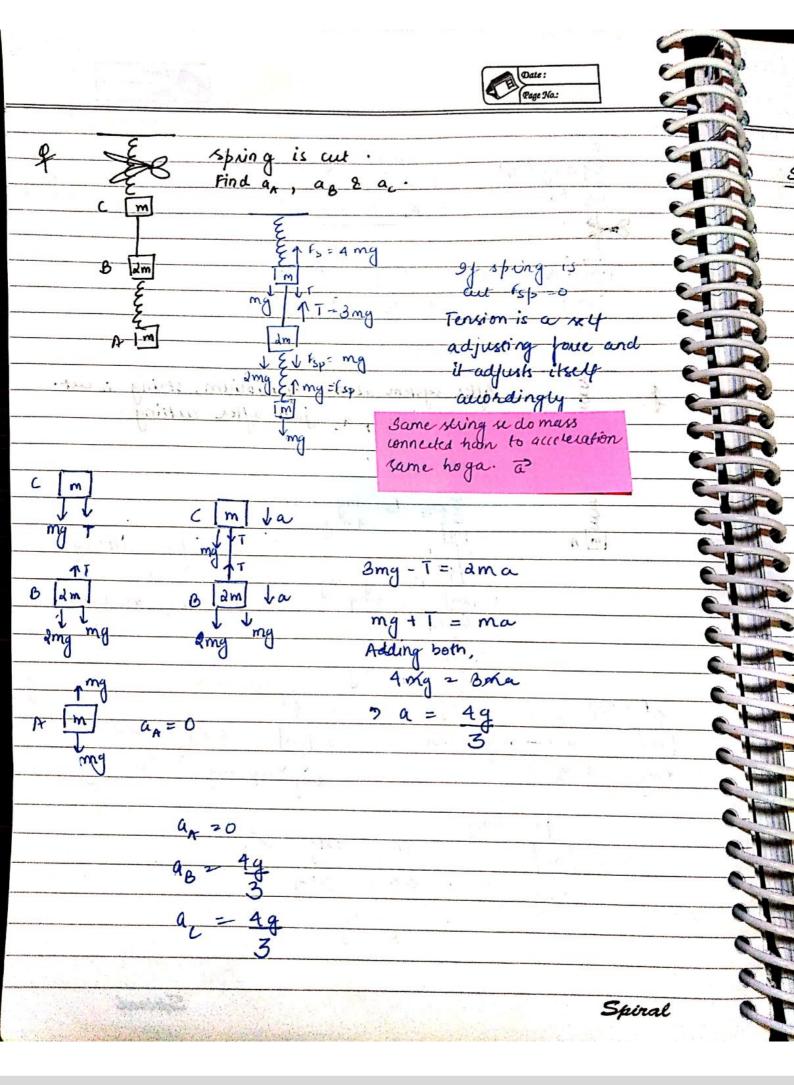


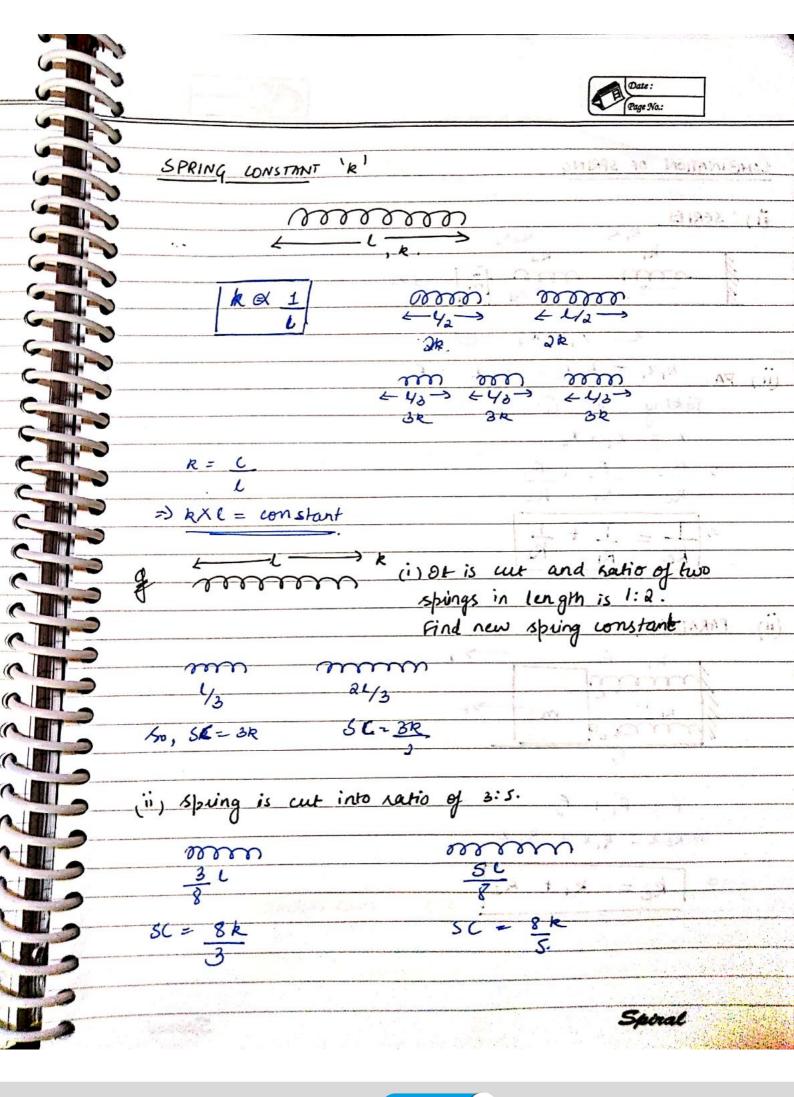


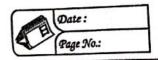




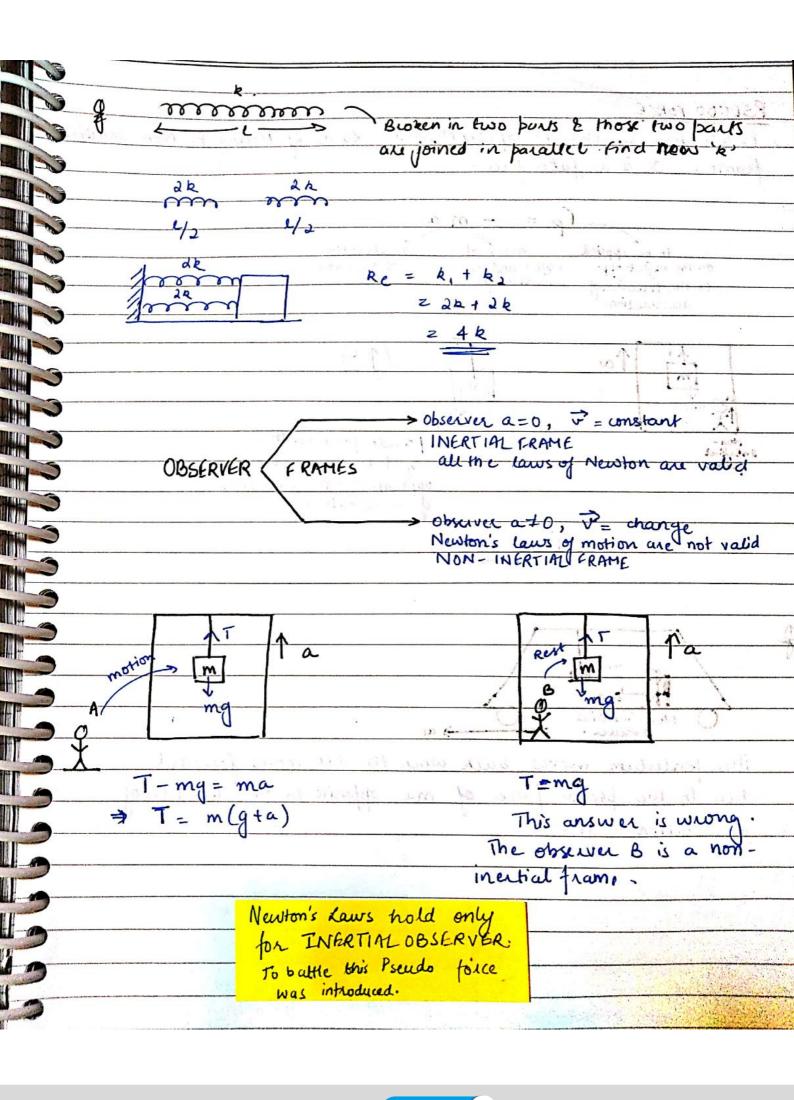


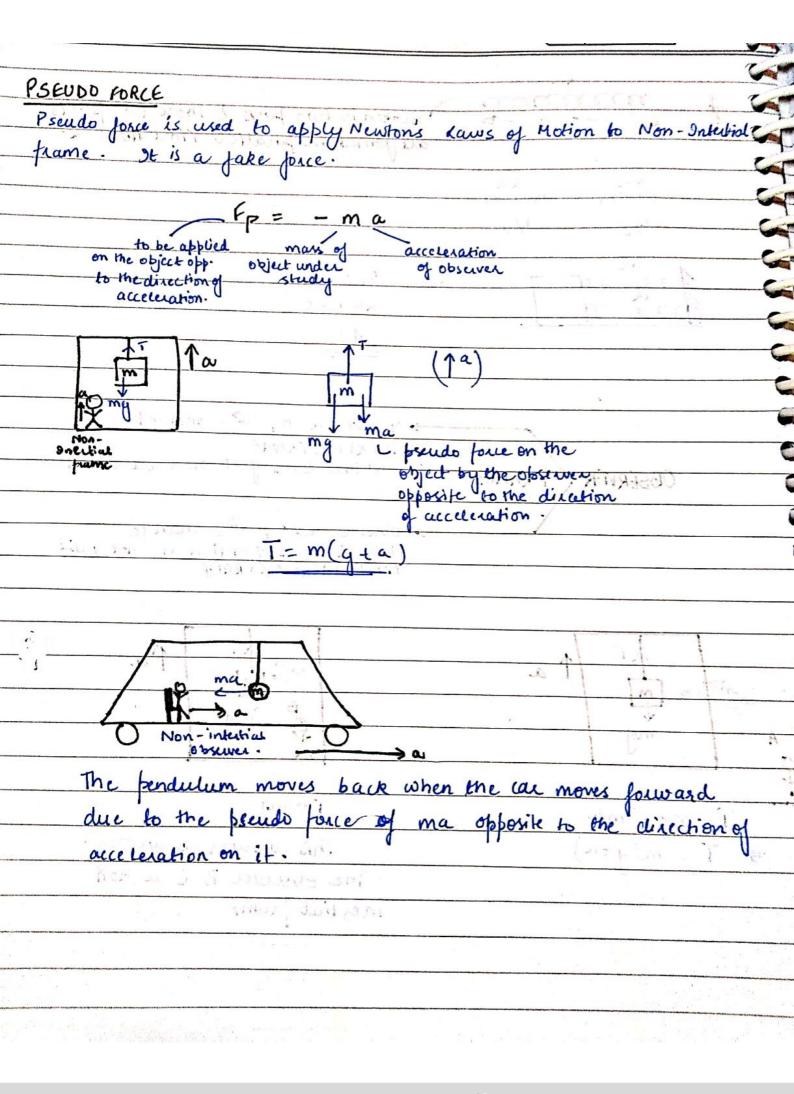


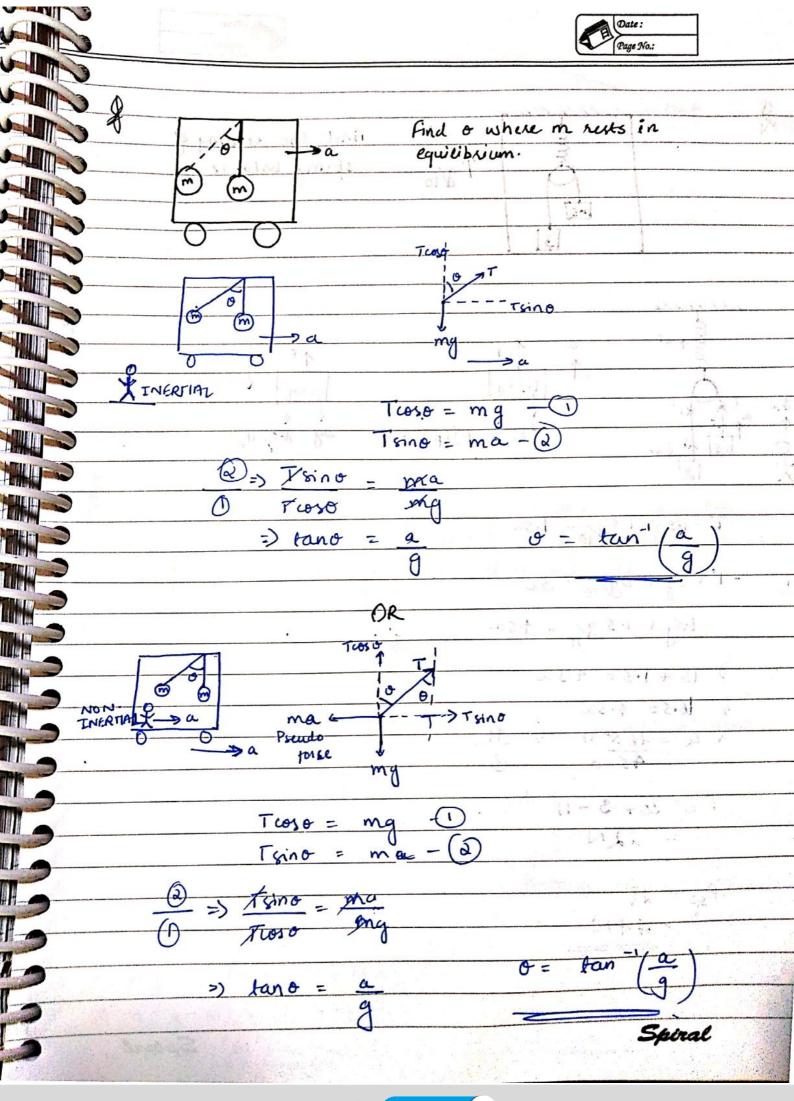




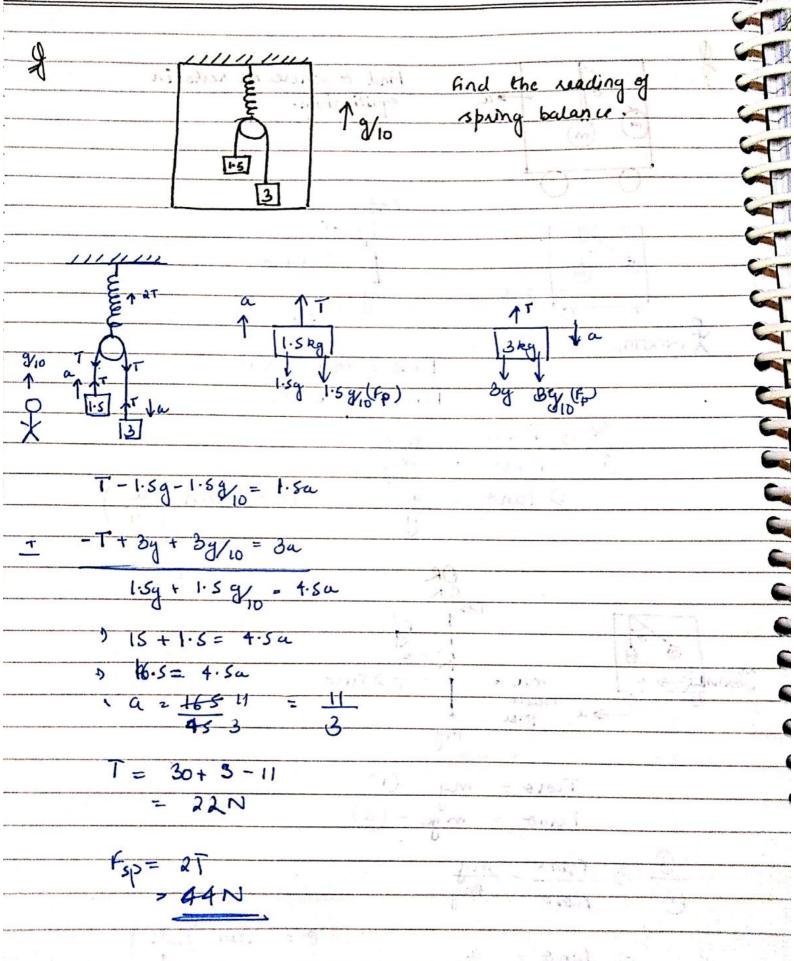
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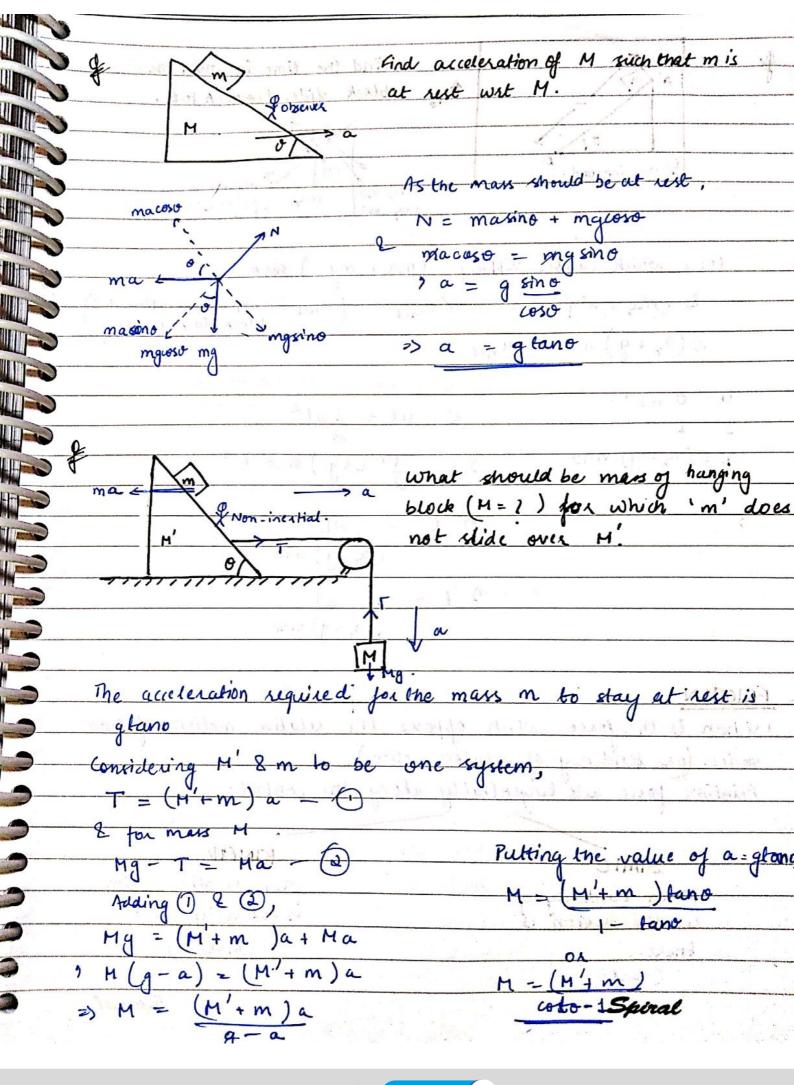


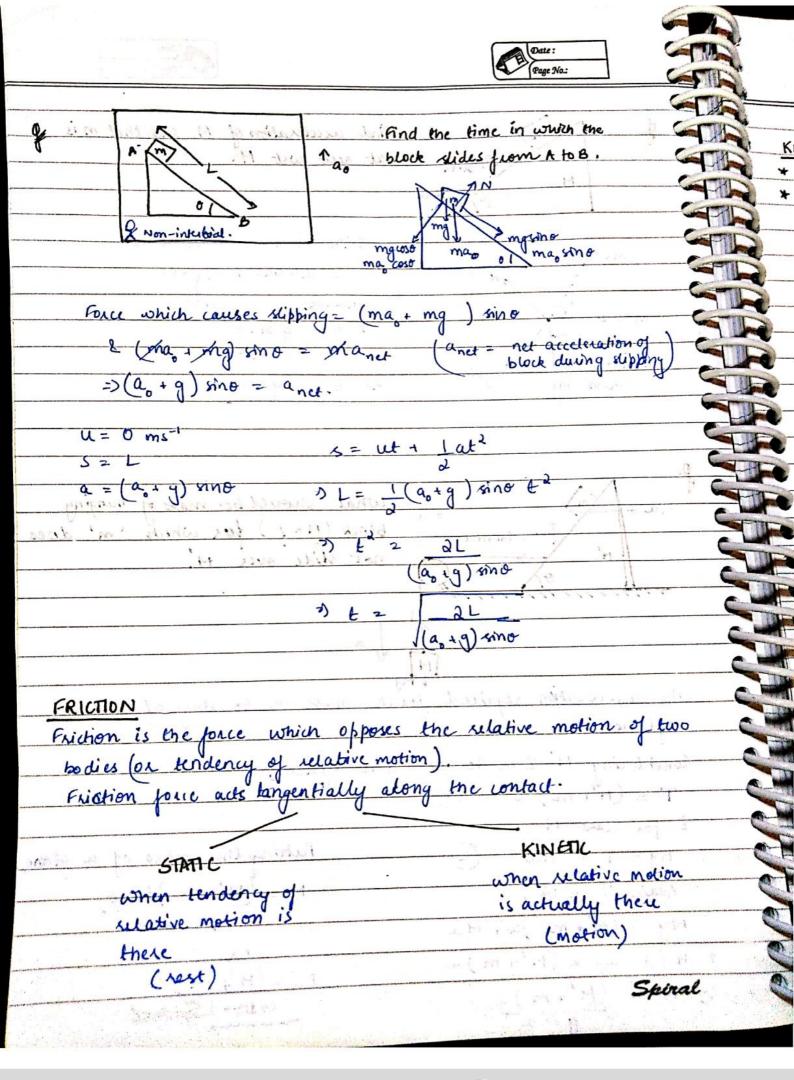


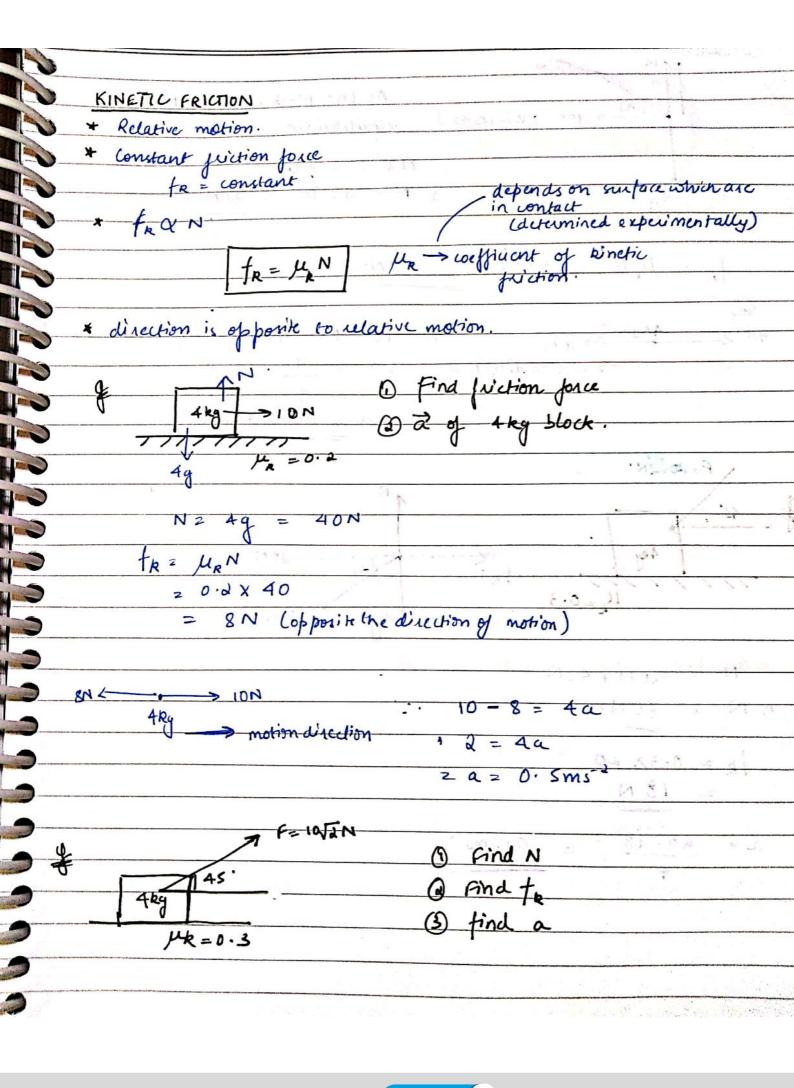


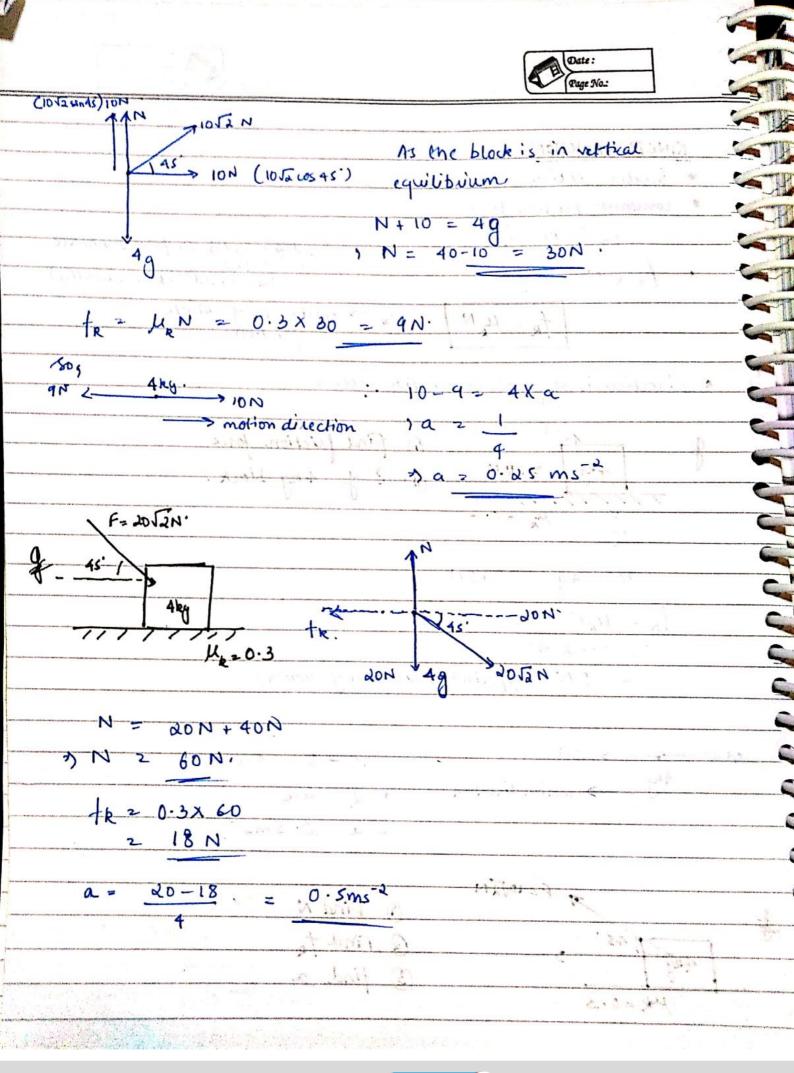


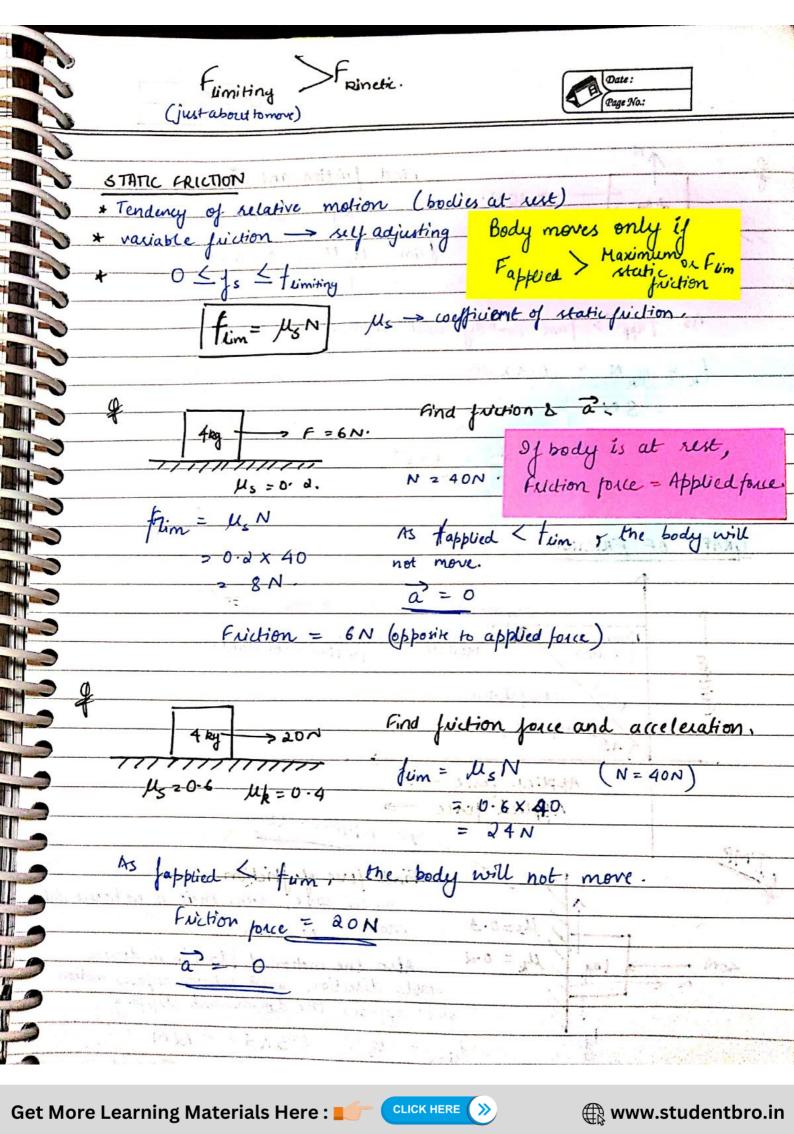


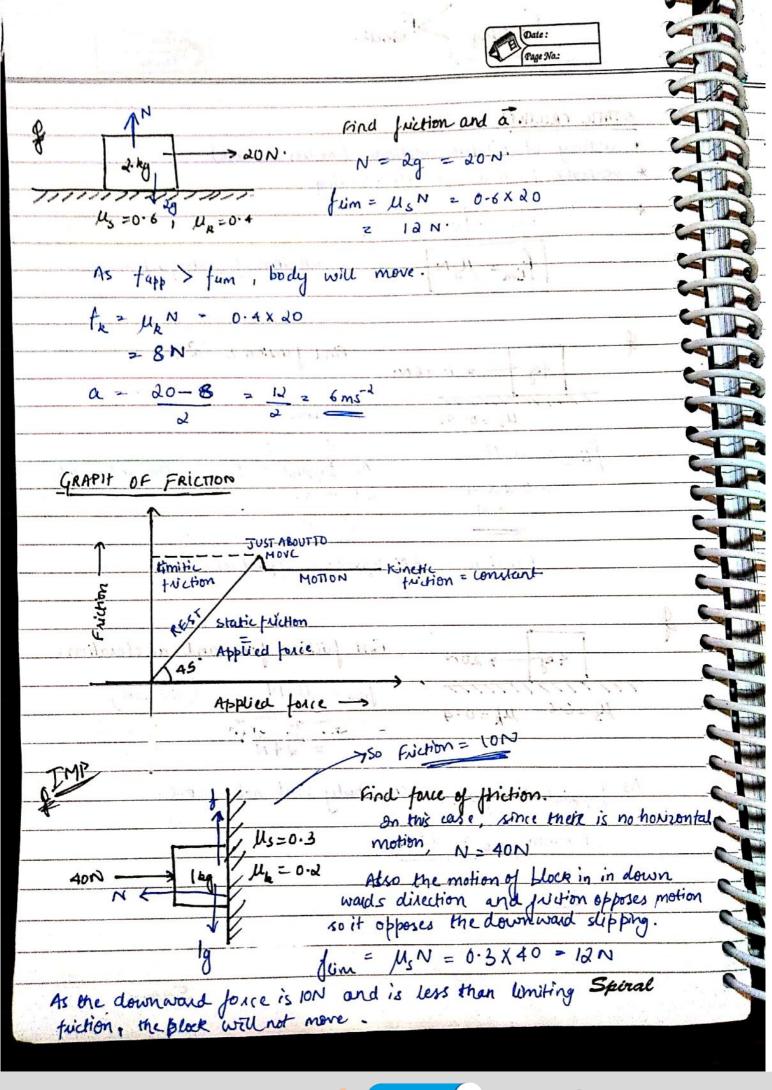


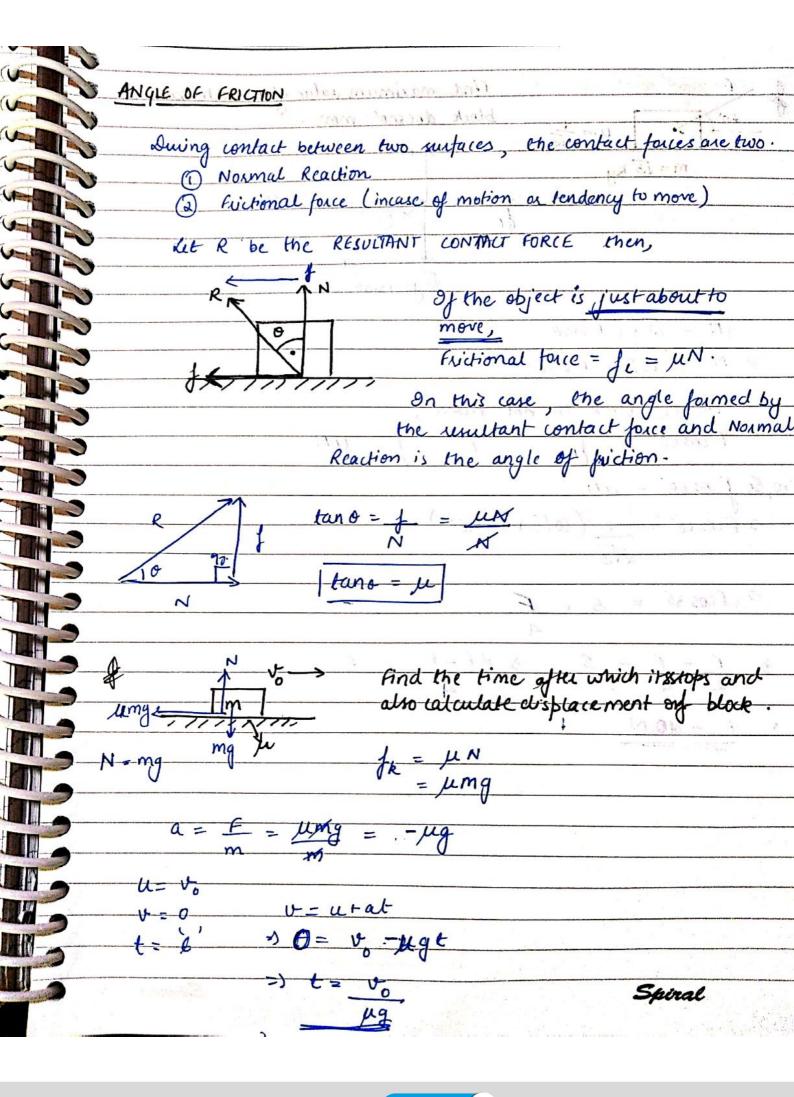




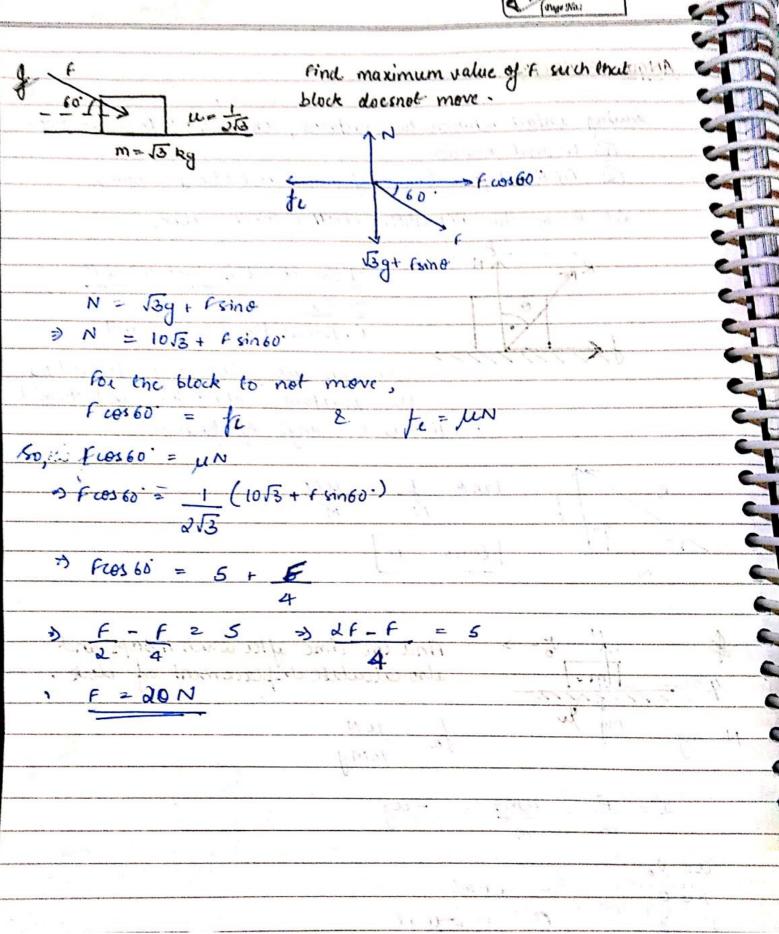


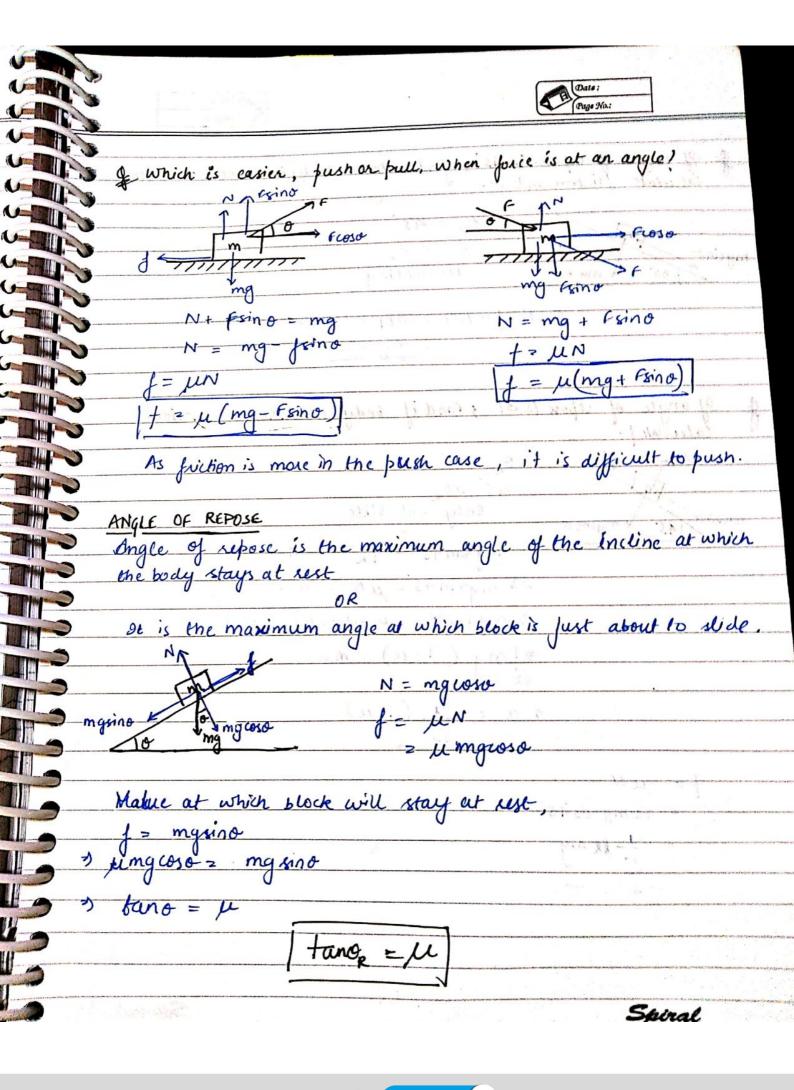


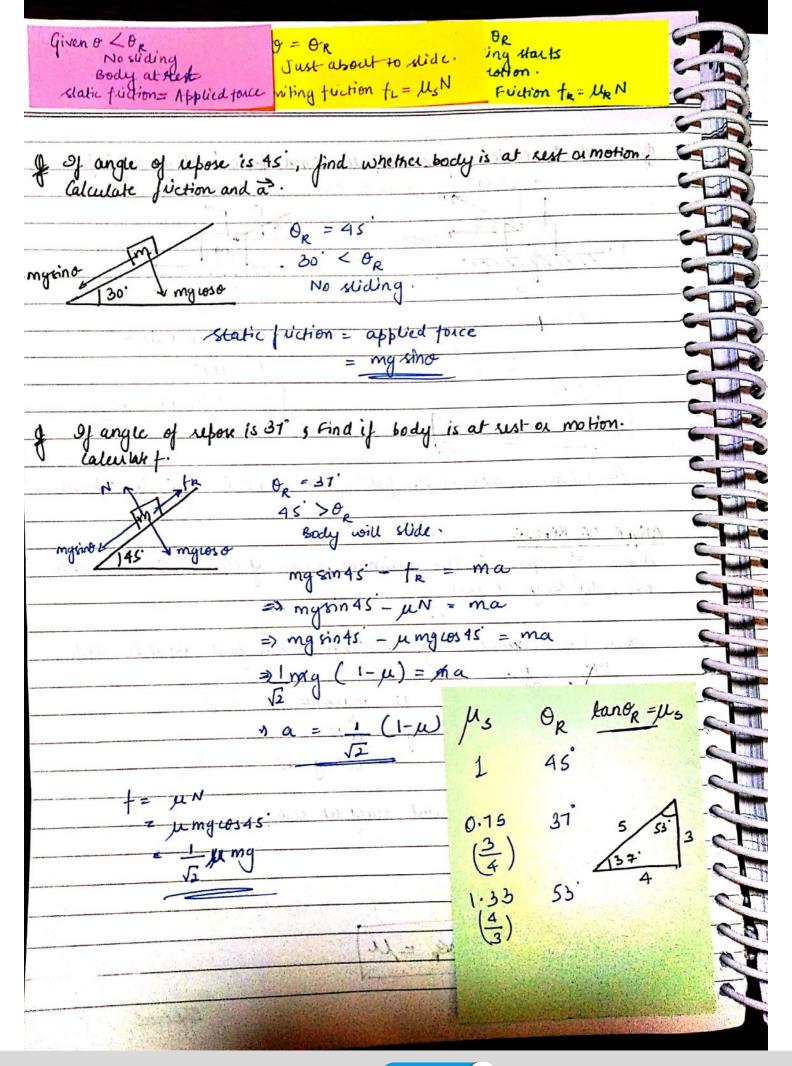








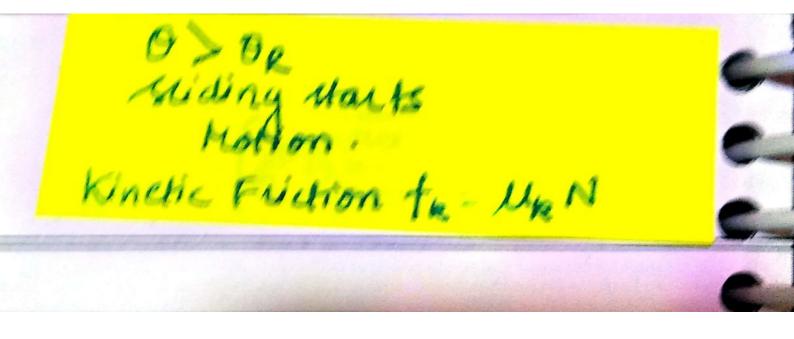


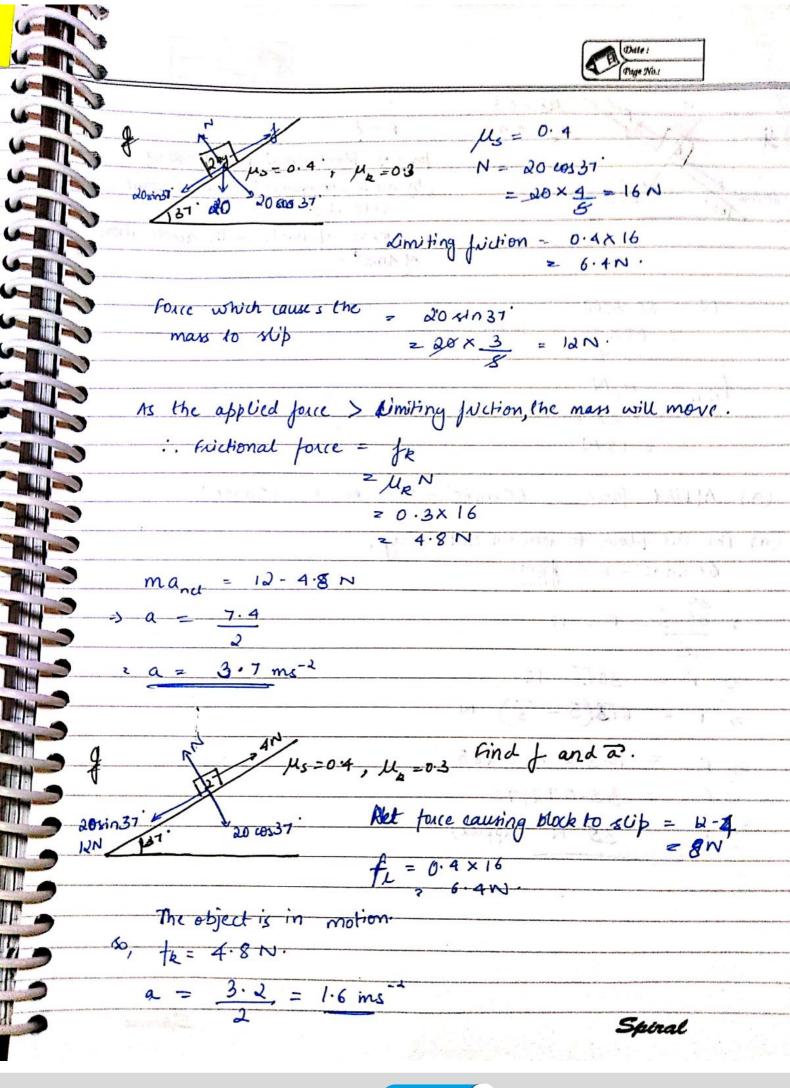


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Just about to slide. Ving

Limiting fuction  $f_L = \mu_s N$ Fr







-

C

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| or (a) block remains stationary

(b) move alownwards with constant velocity.

of tms-1.

$$= 60 \times 1 = 90 \text{ M}.$$
 $N = 60 \cos 90.$ 

$$f_{iim} = \mu_s N$$
  
= 0.6 × 30

$$= 20\sqrt{3} - 18$$
  
 $= 6\sqrt{3}(5 - \sqrt{3})$  N

