



### Todays Goal

- Pulley system
- Equilibrium.

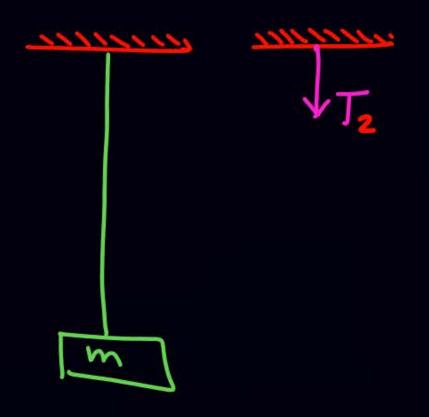


KPP - 16

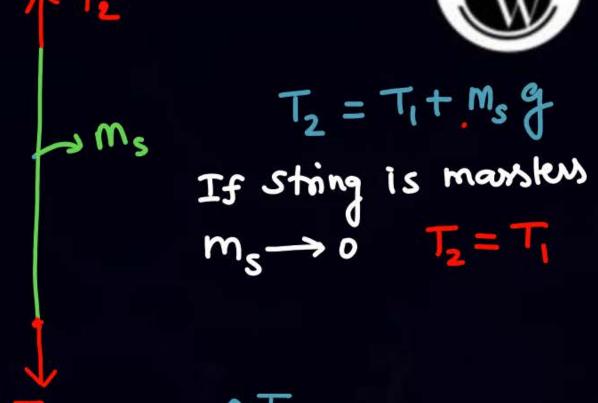
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#### Tension fra

- It act away from the body towards the string.

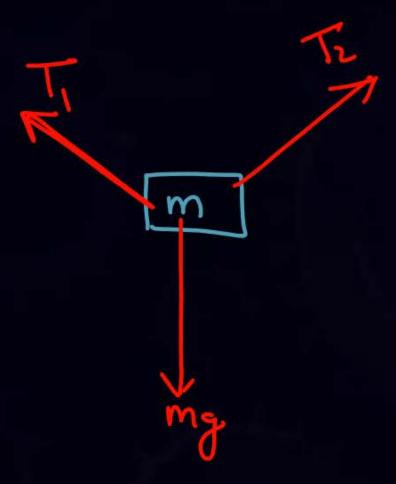




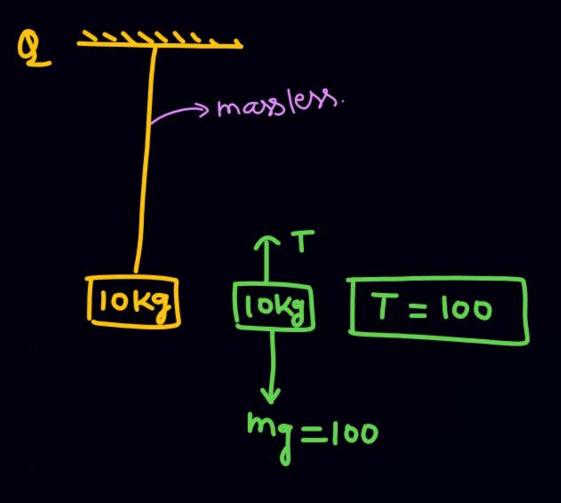


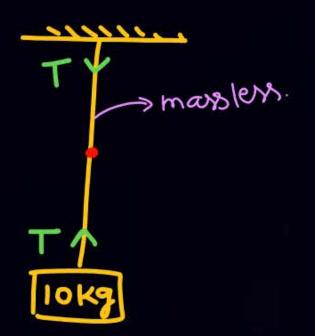


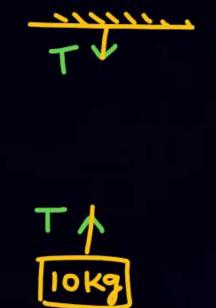
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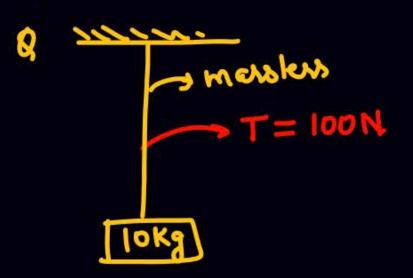


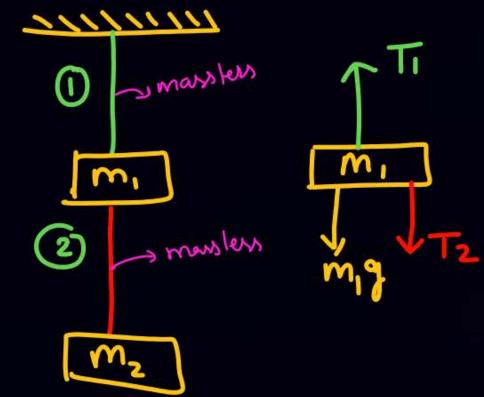


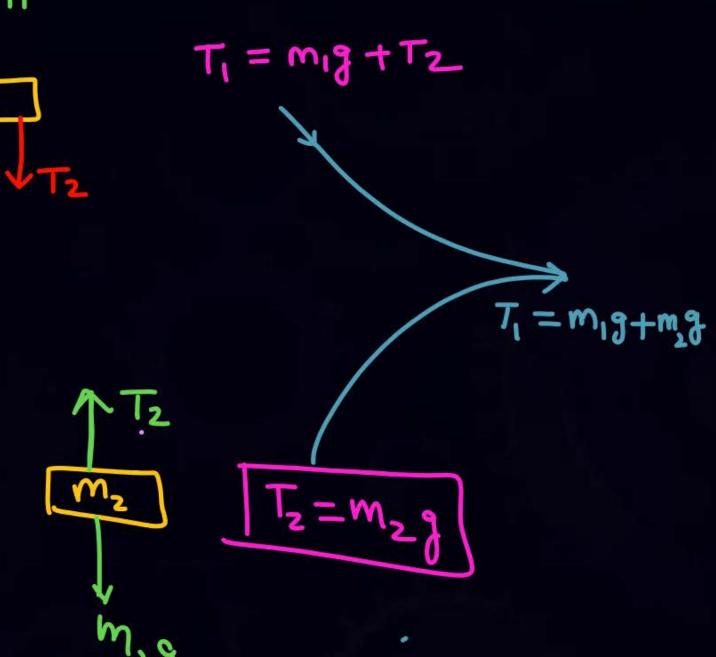


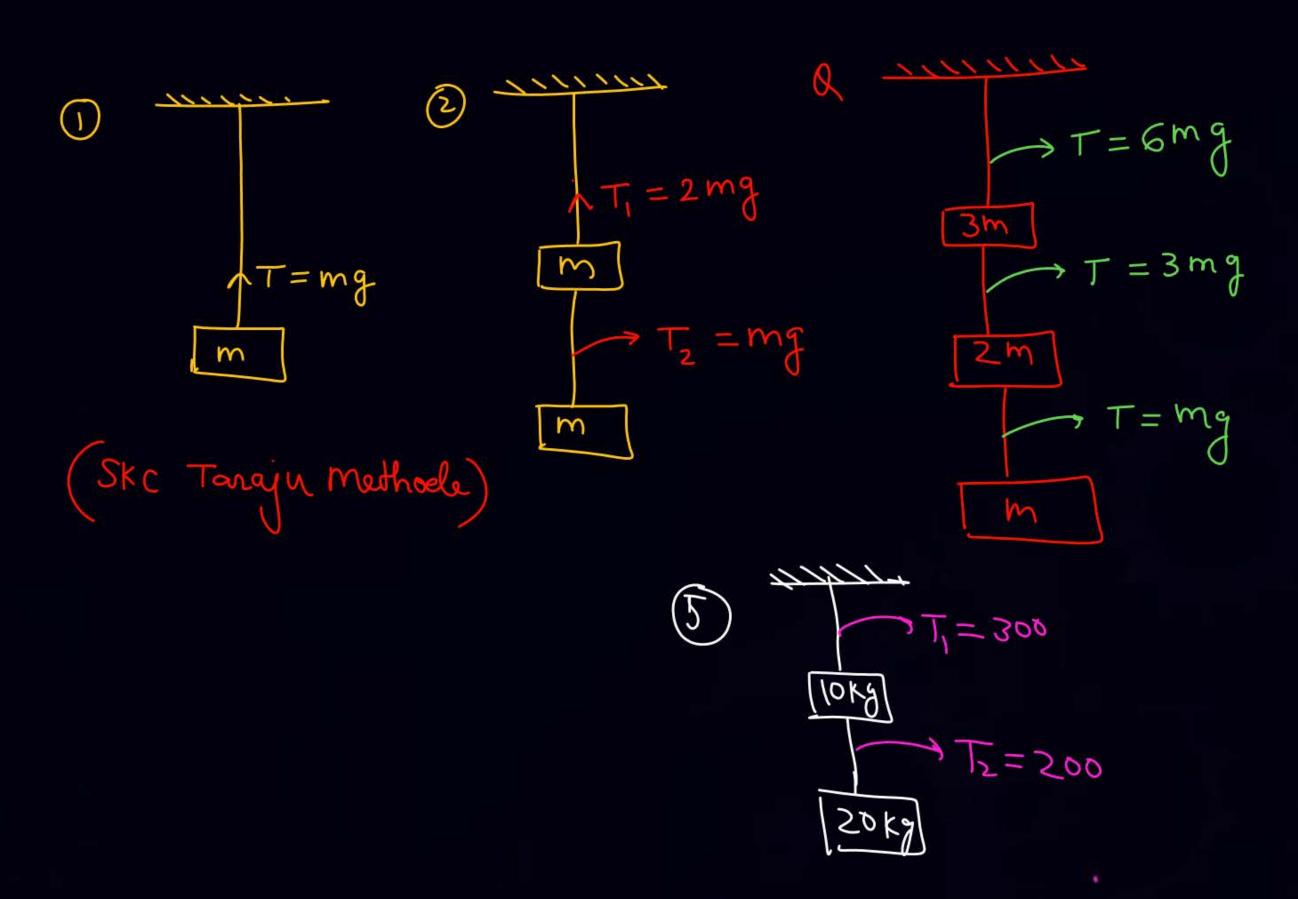


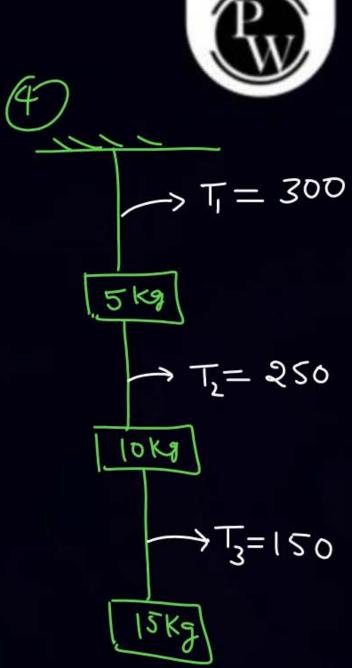


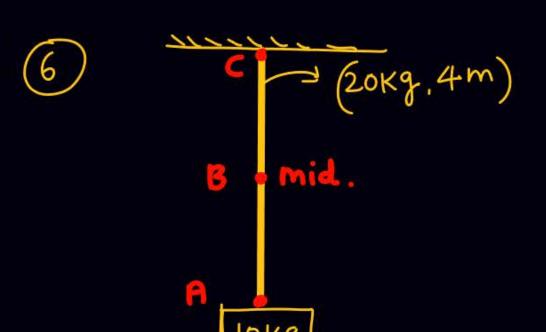




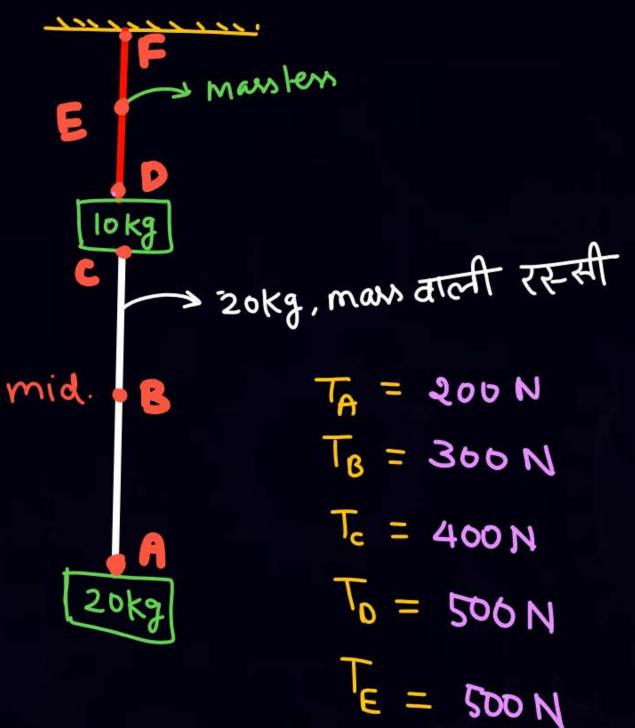








$$T_A = 100$$
 $T_B = T_{mid} = (10 + 10) \times 3 = 200$ 
 $T_C = (20 + 10) = 300$ 



(7)

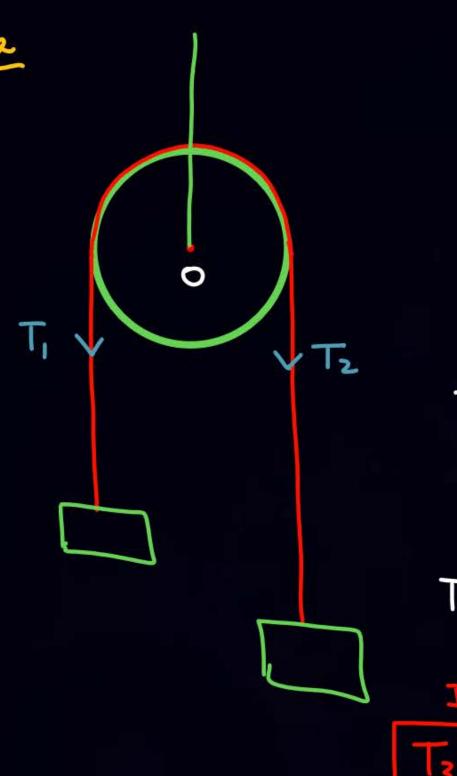


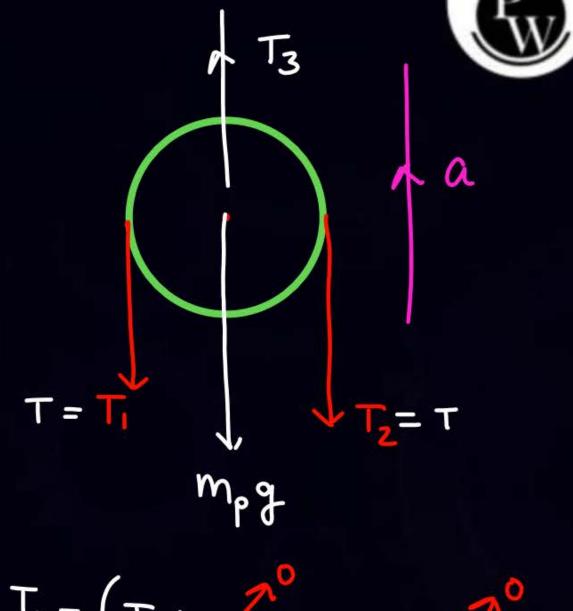
TA = 200 N TB = 300 N  $T_c = 400 N$  $T_0 = 500 \,\mathrm{N}$ E = 500 N TF = 500 N

## Pulley system Atwood machine

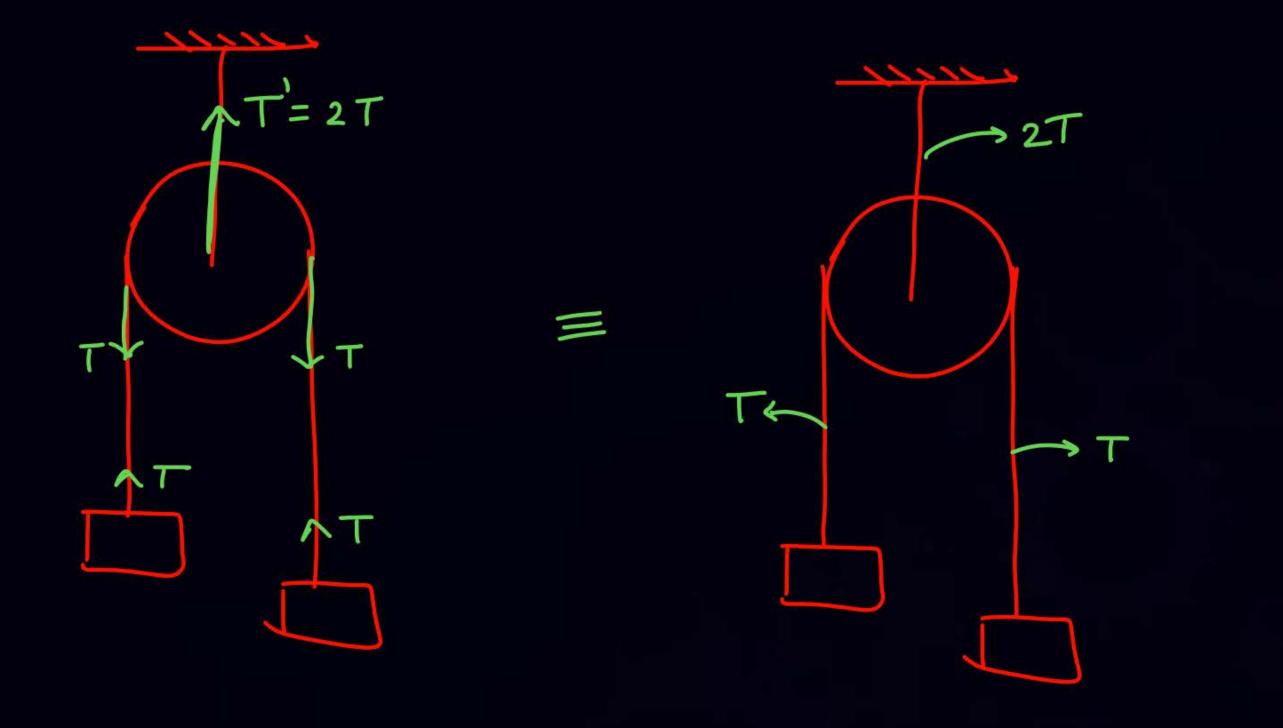
#### Ideal Pulley (NLM)

- massless
- there is no friction blue pulley a string.
- T1=T2





$$T_3 - \left(T_1 + mpg + T_2\right) = mq$$

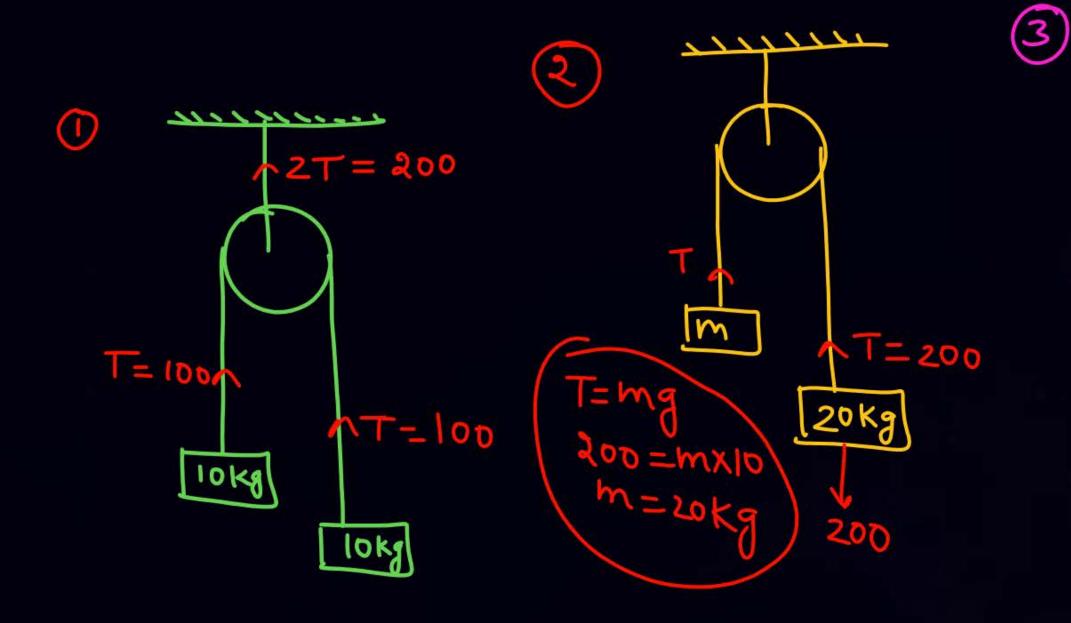


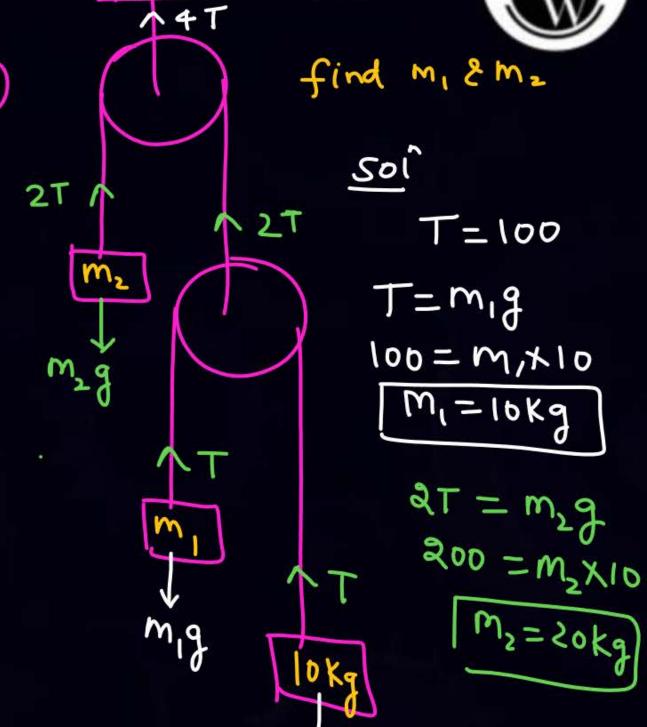


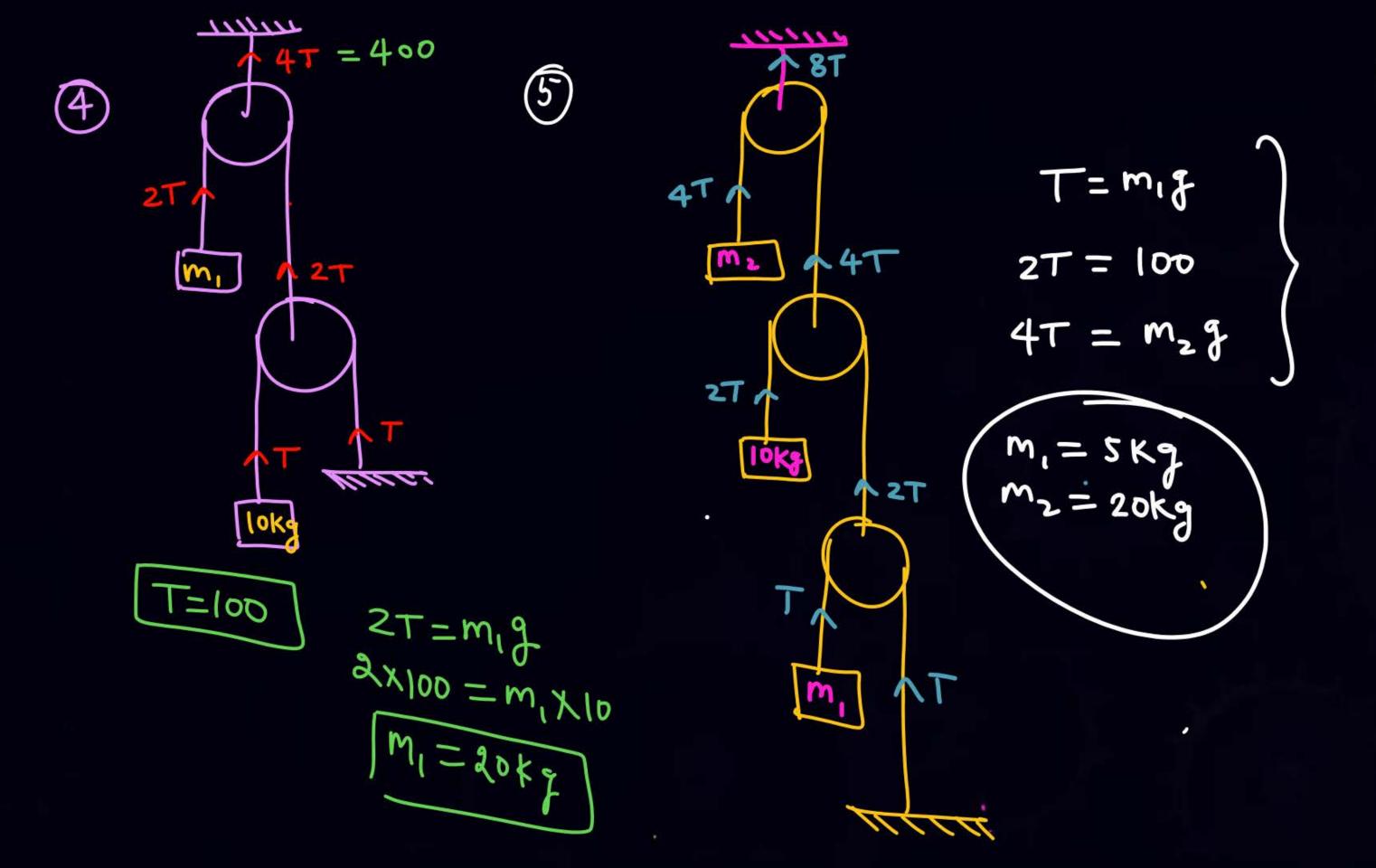


Q If in following que all masses are in equilibrium. Find Unknown

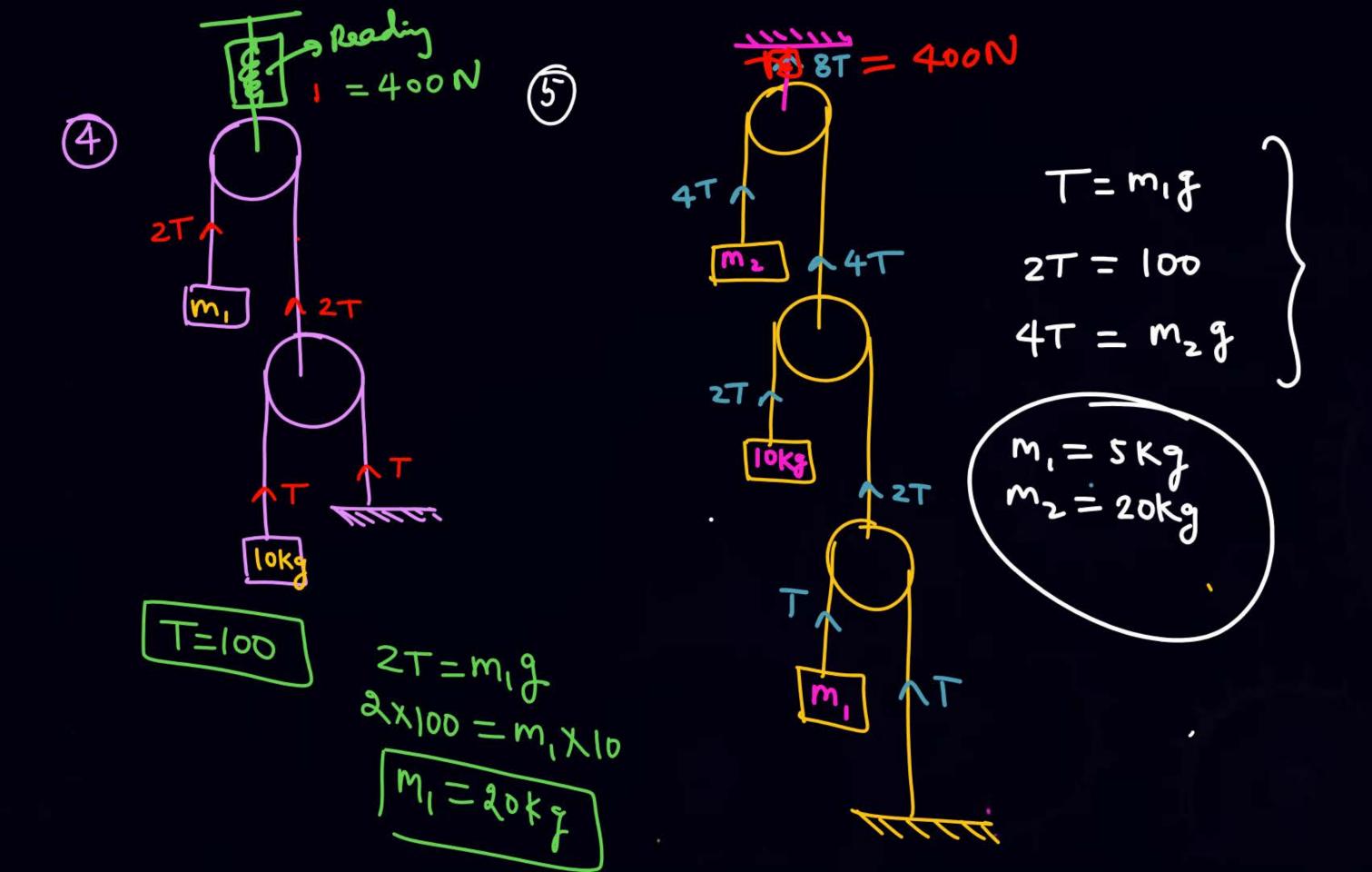




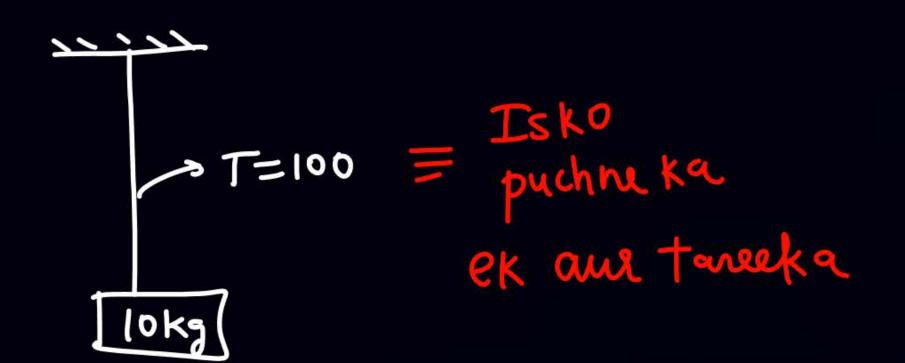


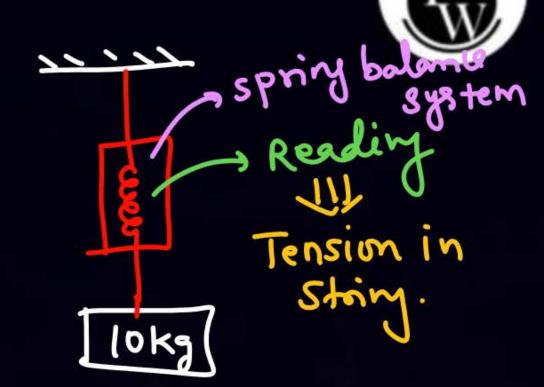


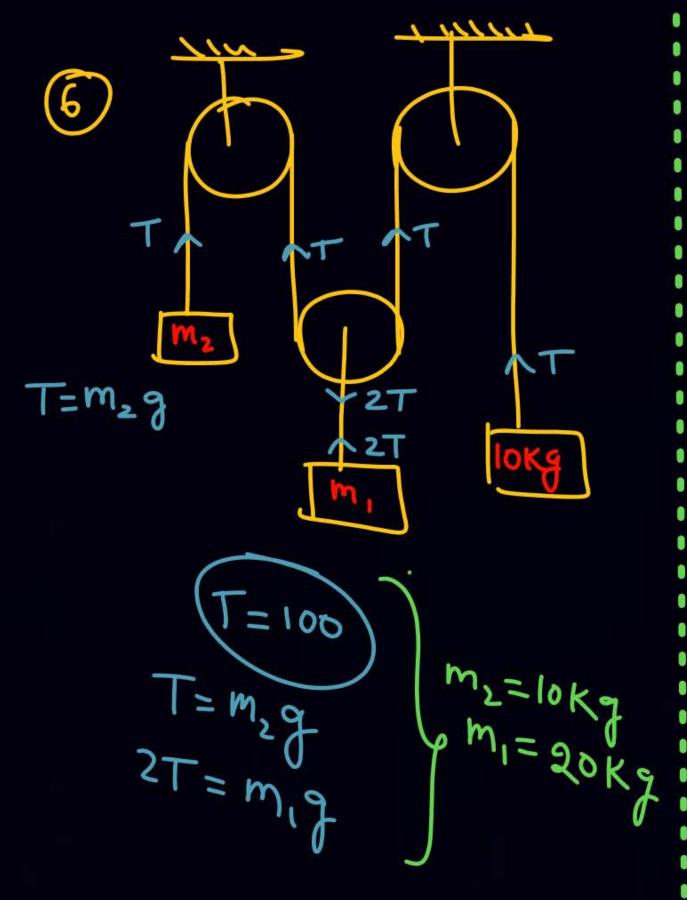


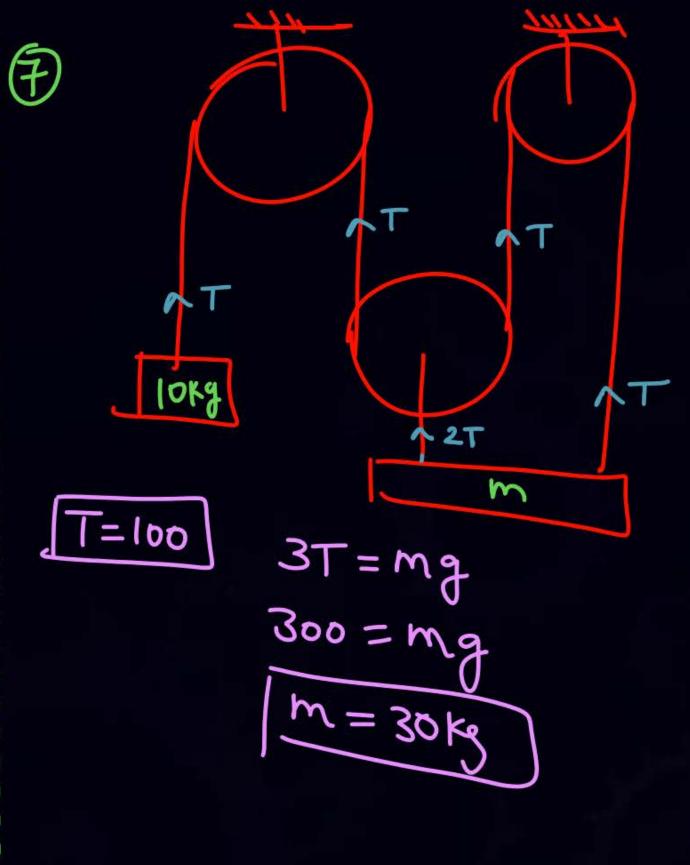




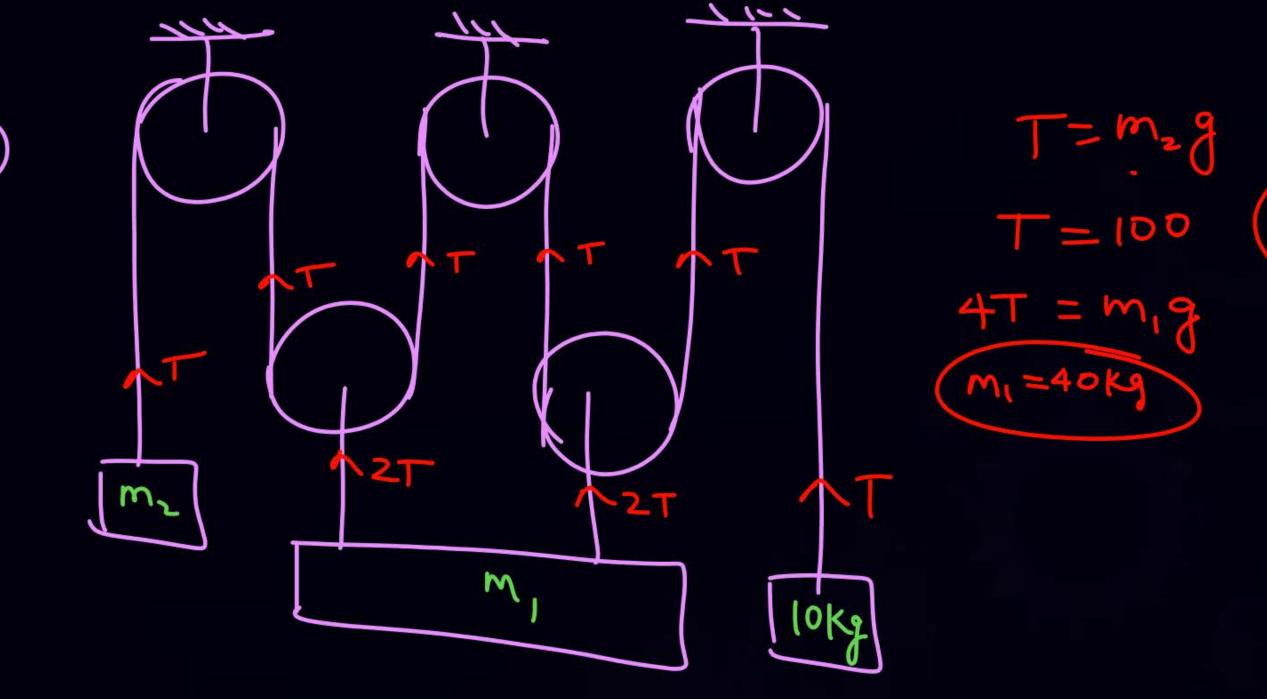




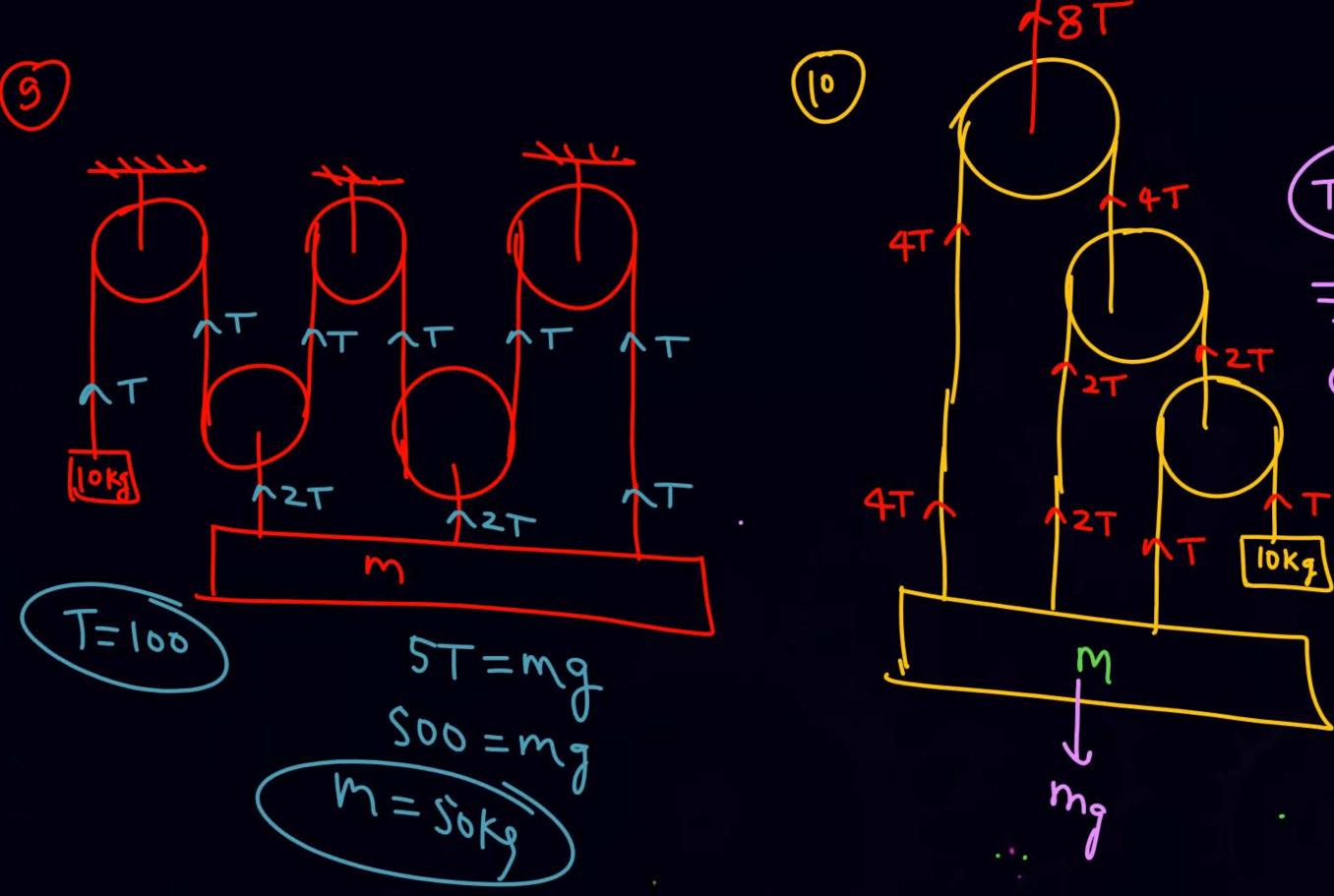




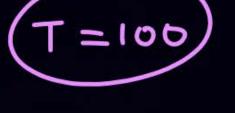




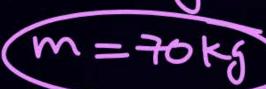
m2 = 10 Kg



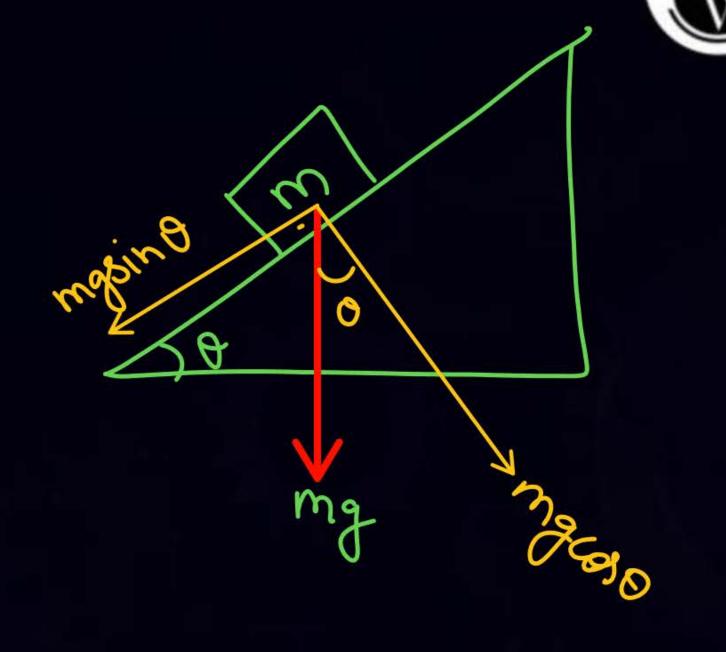


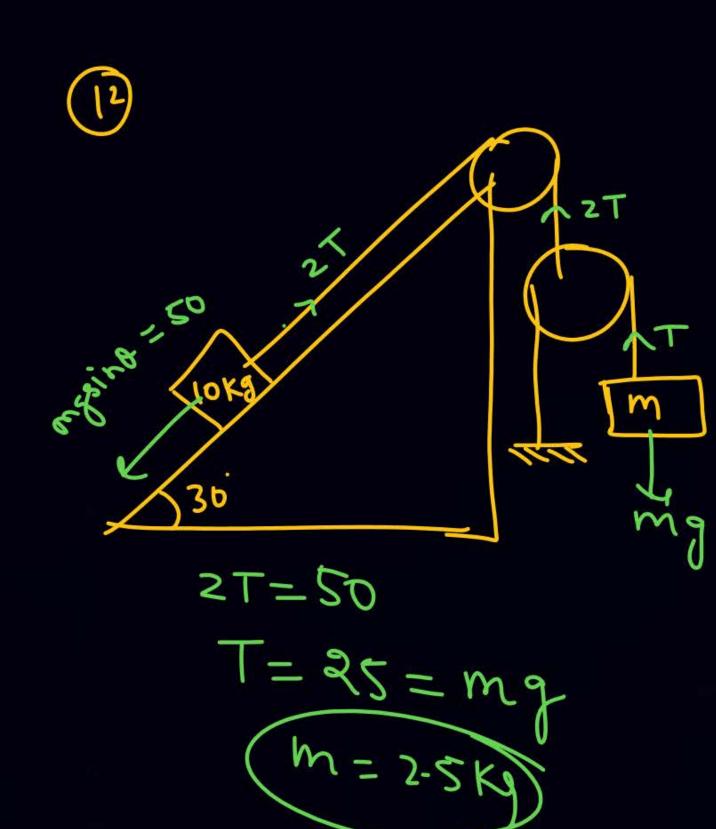


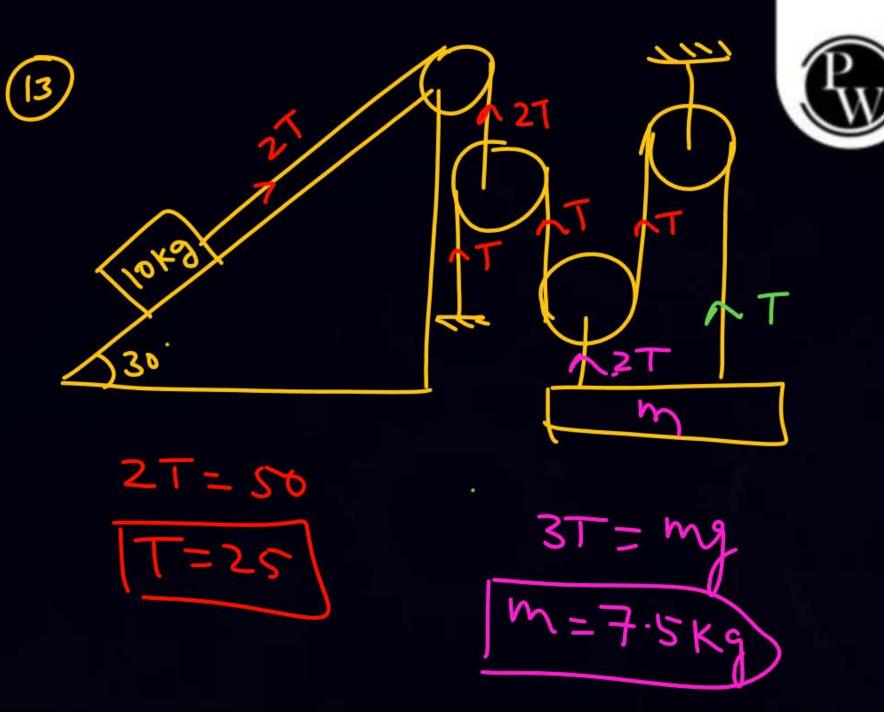
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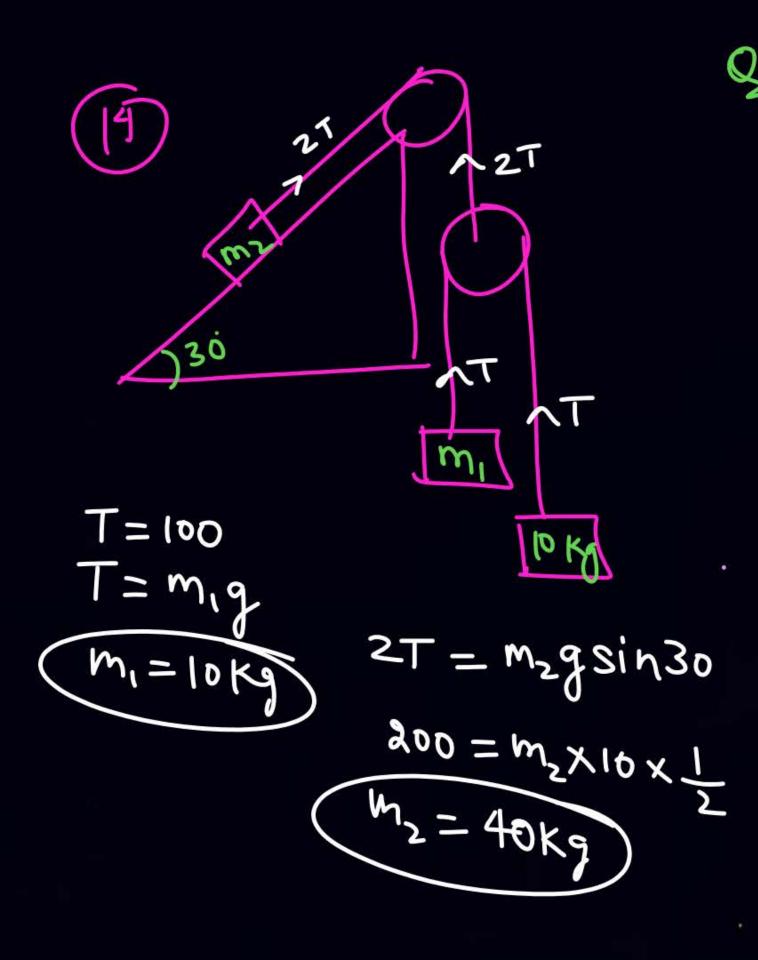


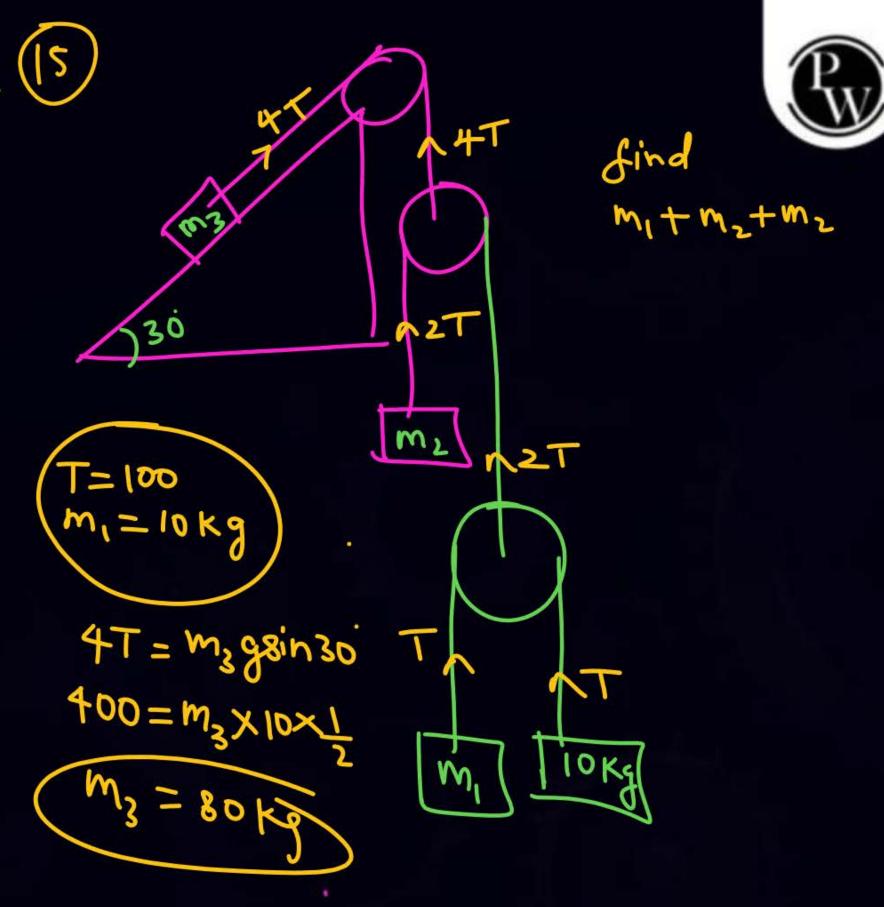
All marses are in equilibrium T=50 T=mg

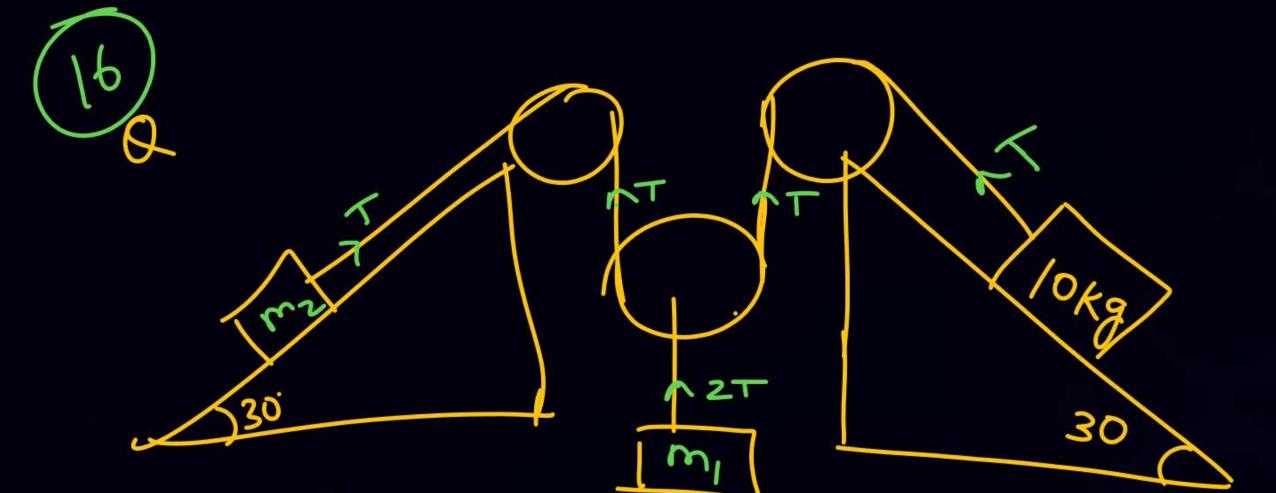














T= m298in 30

 $50 = m_2 \times 10 \times \frac{1}{2}$ 

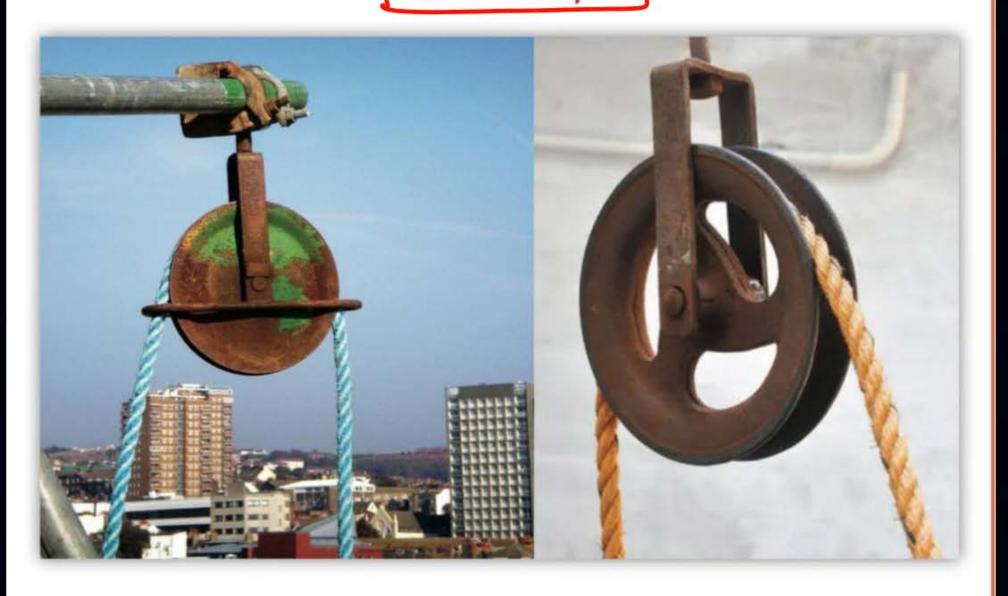
M2=10K

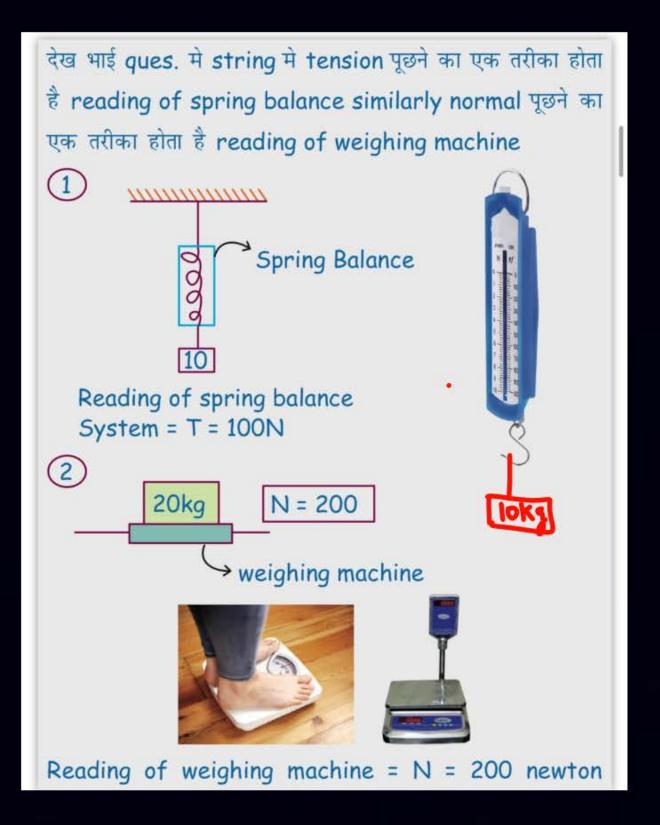
2T=m, g Sn = 10 Kg

## PULLEY SYSTEM / ATWOOD MACHINE



#### Real Pulley













- Revise notes





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