

MIND MAP FOR JEE ASPIRANTS



Friction





By- Saleem Ahmed Sir

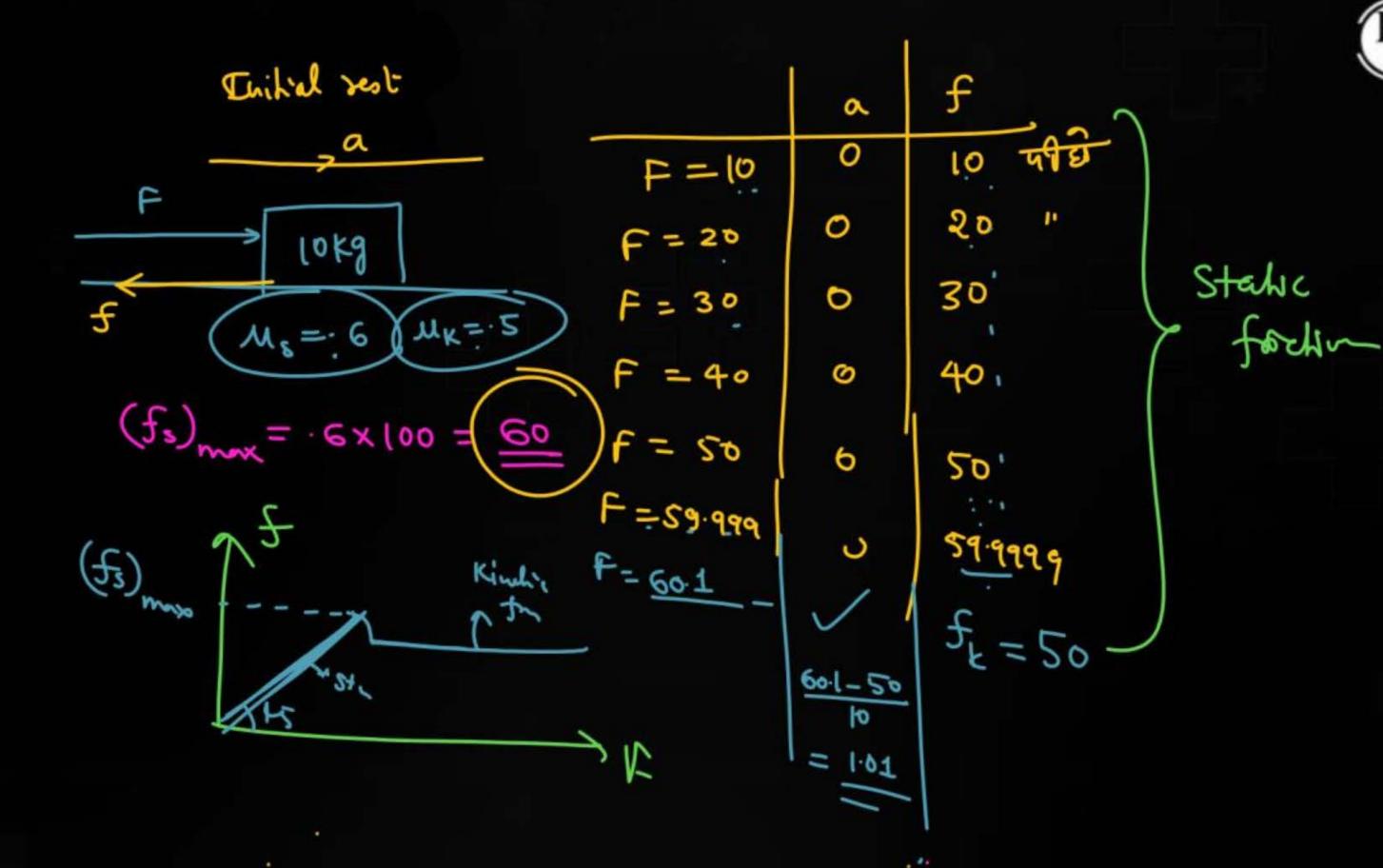


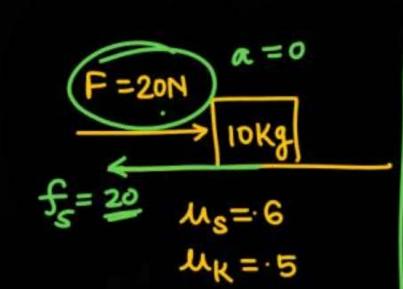
frichm

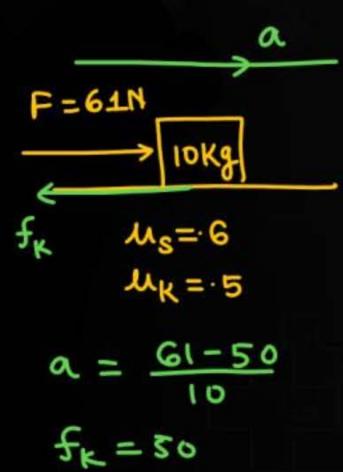
static =
$$(fs)_{max} = M_sN$$

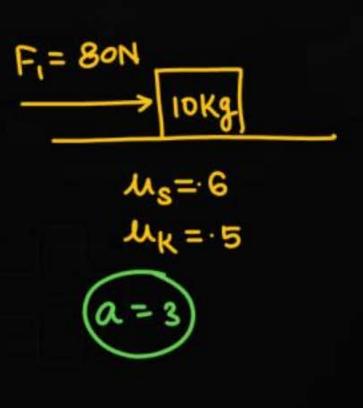
kinchic frich = $f_R = M_kN = cmst$
 $f_k = M_kN = cmst$













$$a = \frac{100 - 20 - 50}{10}$$

$$\frac{a=0}{f=100}$$

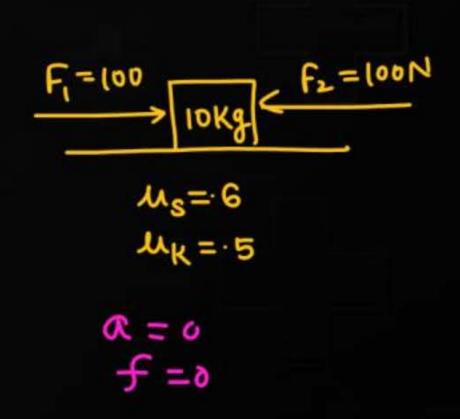
$$\frac{f_{2}=70N}{10Kg}$$

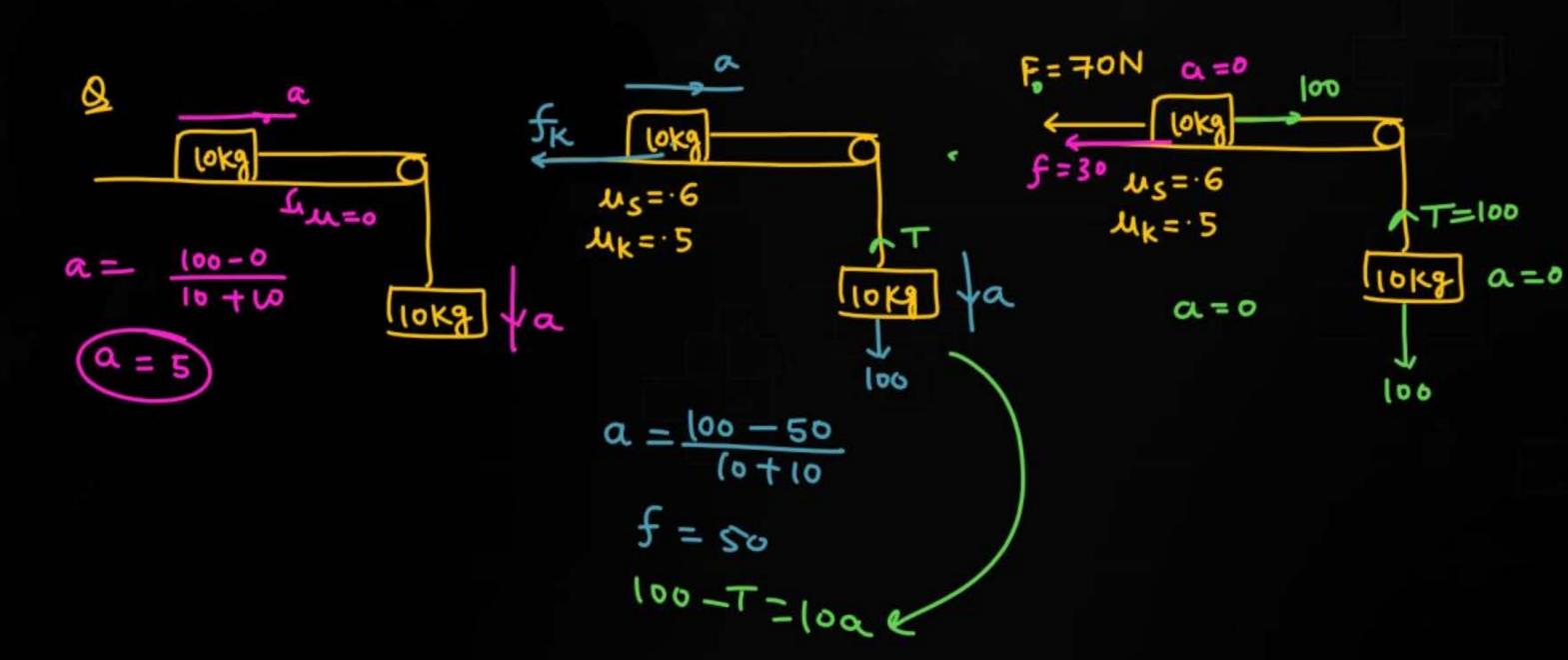
$$\frac{f_{2}=70N}{Ms=6}$$

$$\frac{M_{S}=6}{M_{K}=5}$$

$$\alpha=0$$

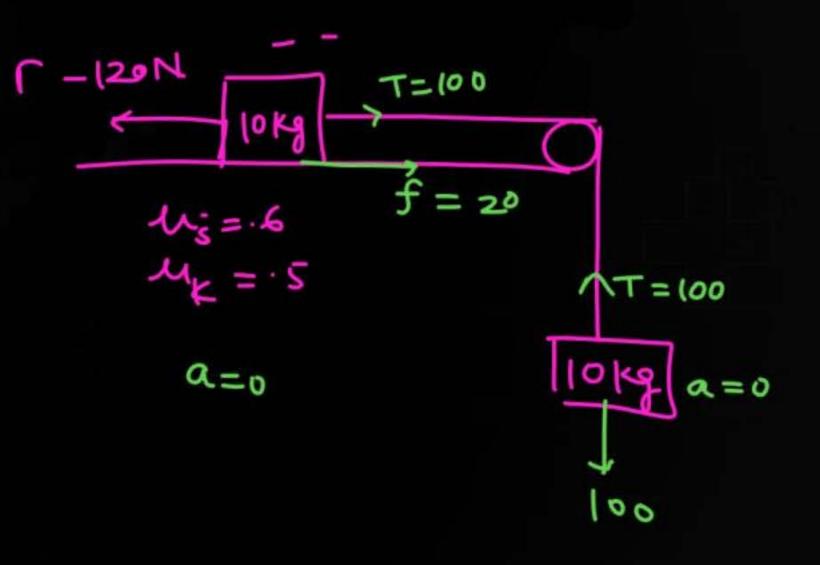
f = 30 = fs

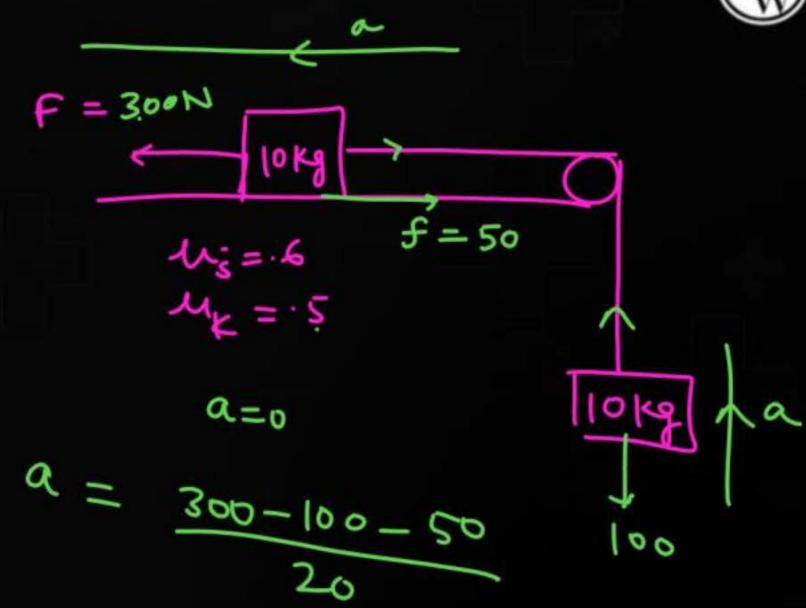


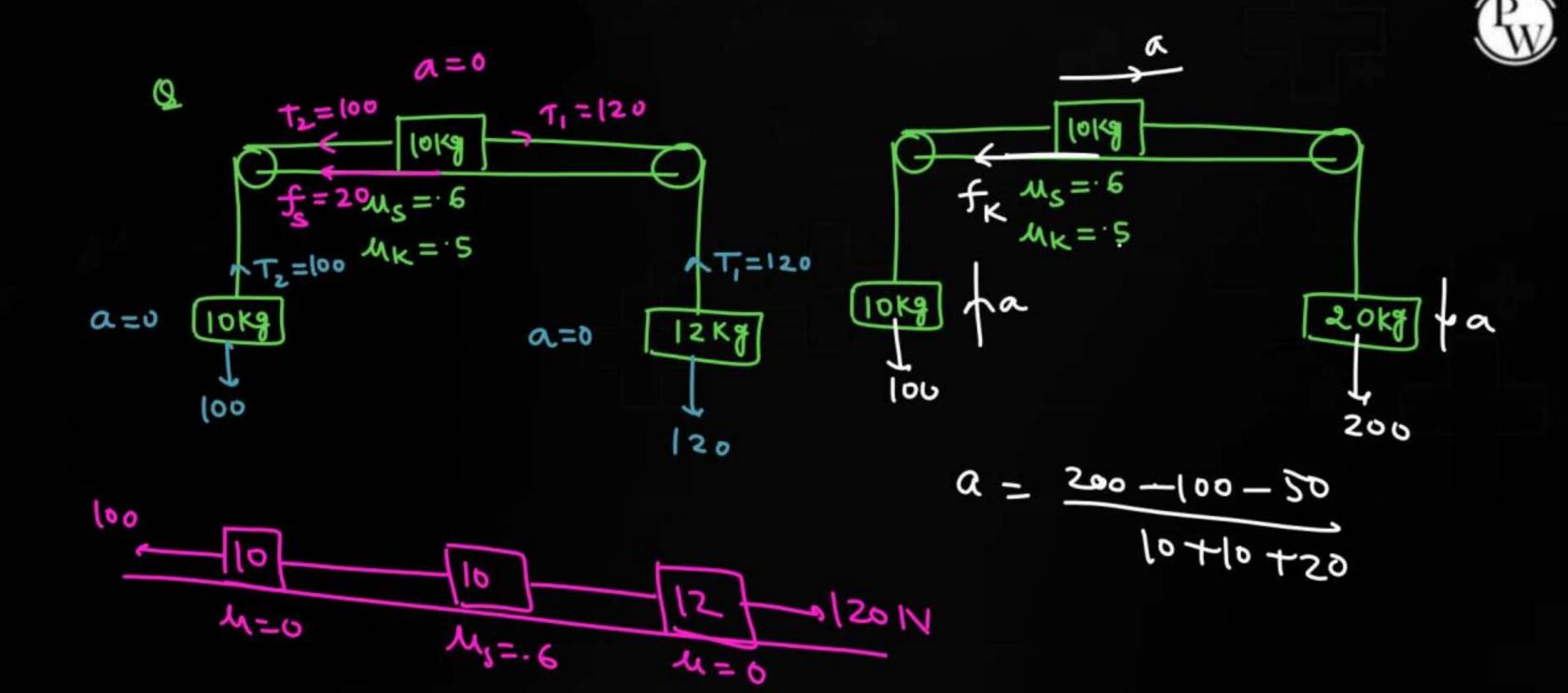
















Tsino 0 (m') min value so that m move Tano L Tcoro > (fs) Tana > M(mg_Tsino)

In the figure shown a ring of mass M and a block of mass m are in equilibrium. The string is light and pulley P does not offer any friction and coefficient of friction between pole and M is μ . The frictional force offered by the pole on M is

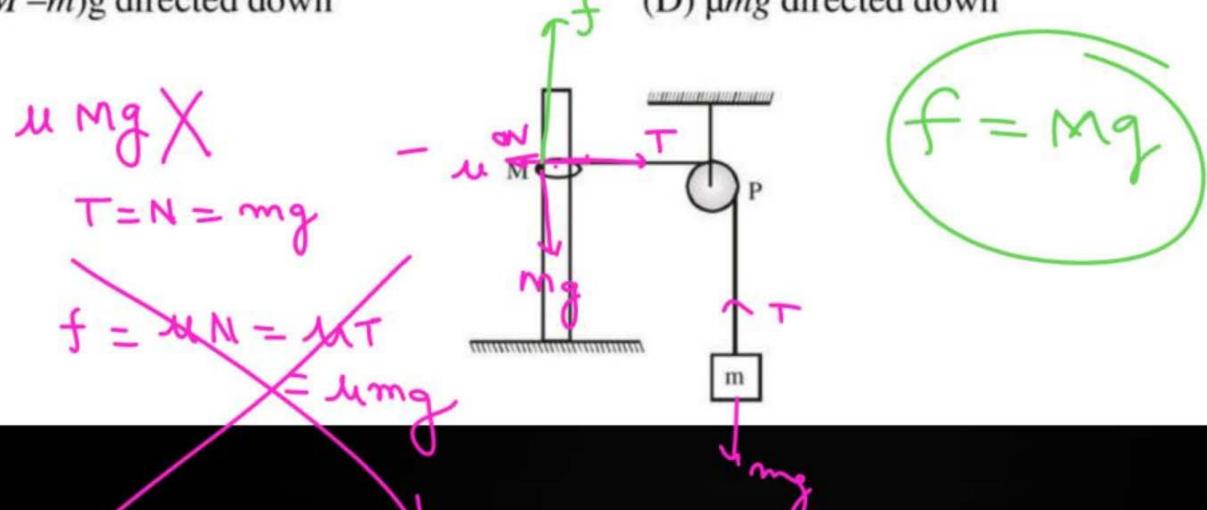


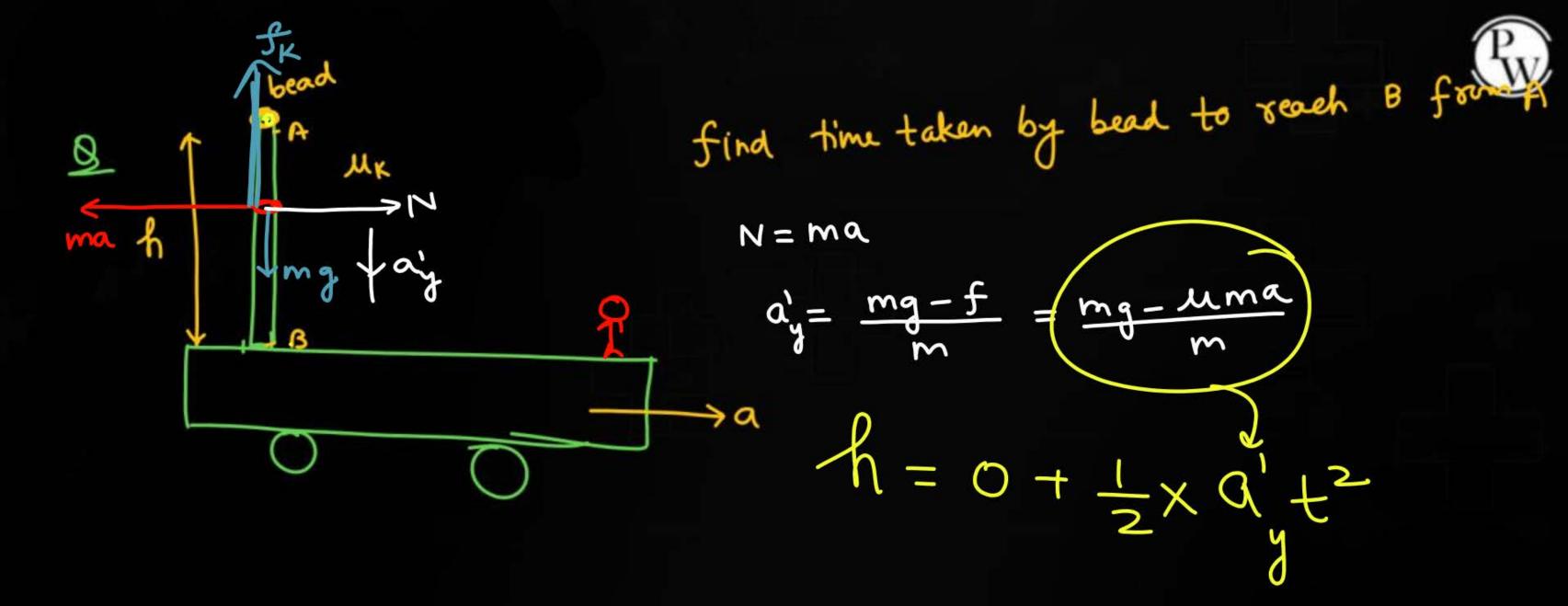
(A) Mg directed up

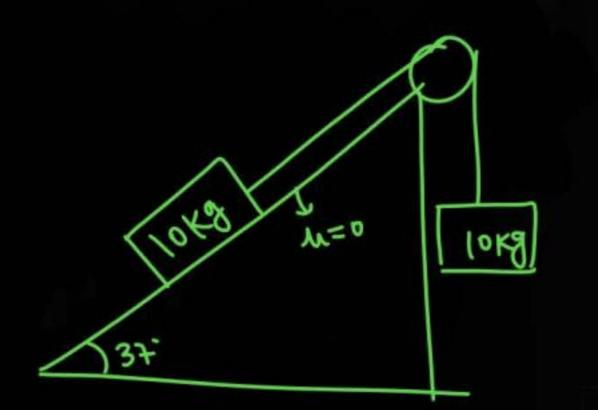
(C) (M-m)g directed down

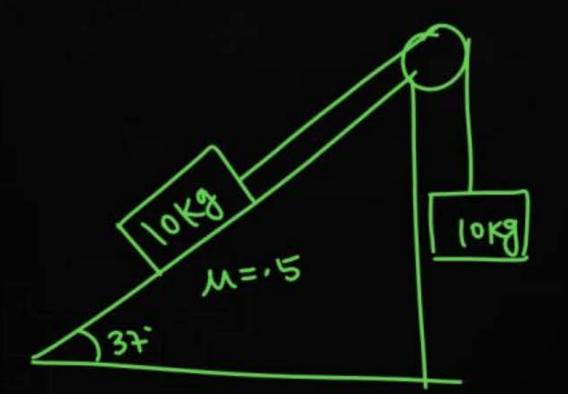
(B) µmg directed up

D) µmg directed down





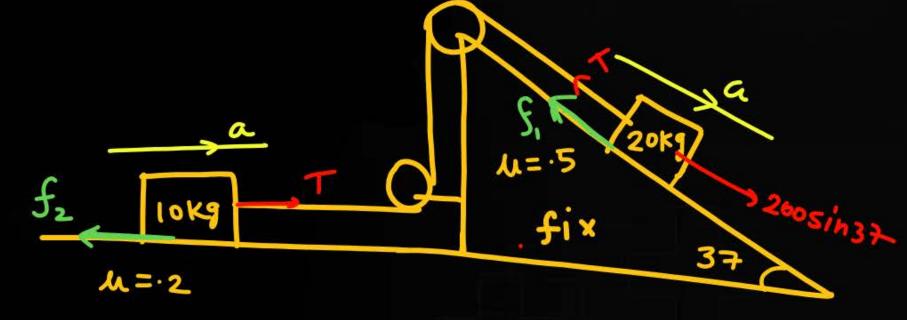






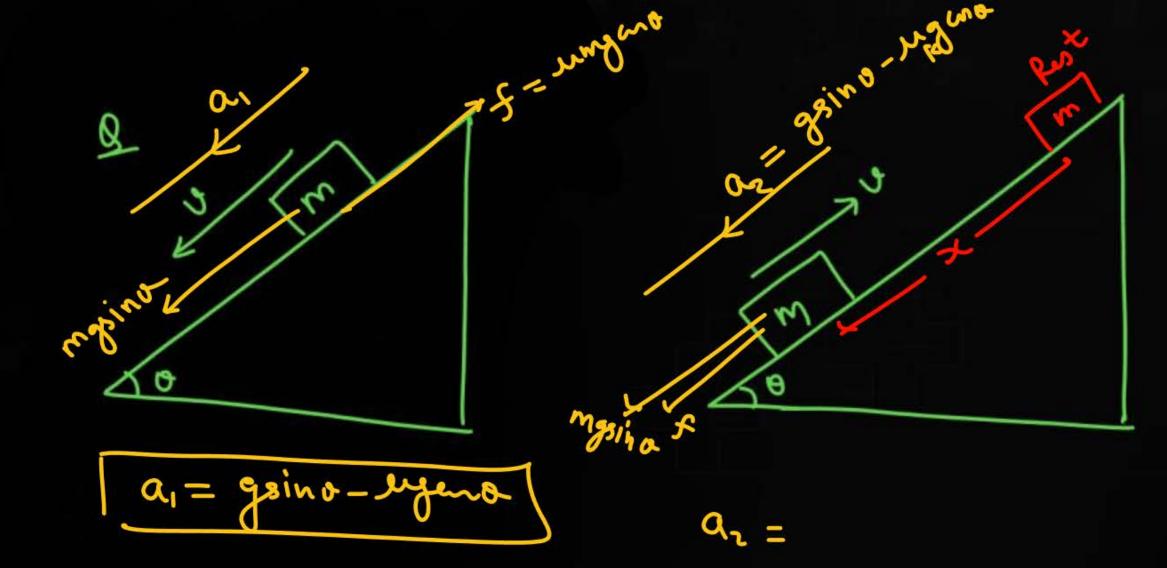






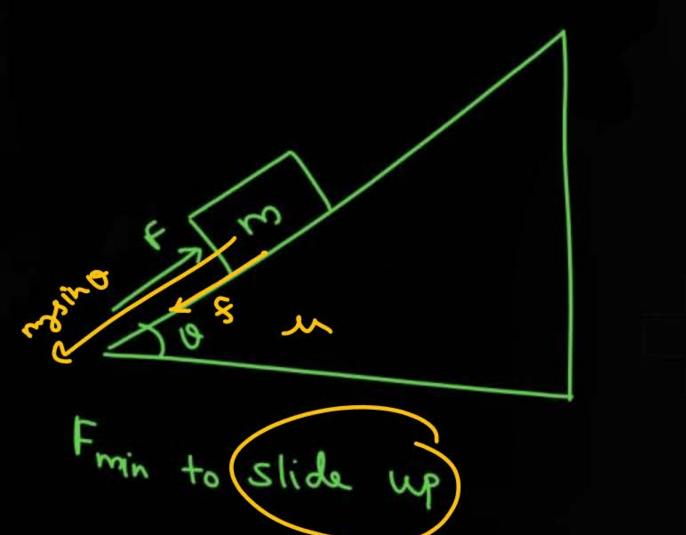
$$a = \frac{200 \sin 37 - .5 \times 200 \cos 37 - .2 \times 100}{30}$$

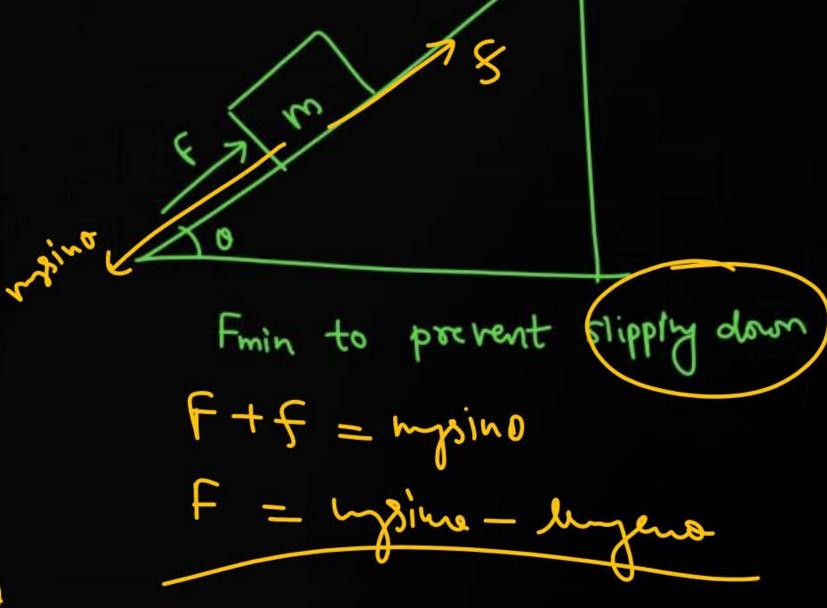
$$200 \sin 37 - f_1 - T = 20 \alpha$$
 $T - f_2 = 10 \alpha$





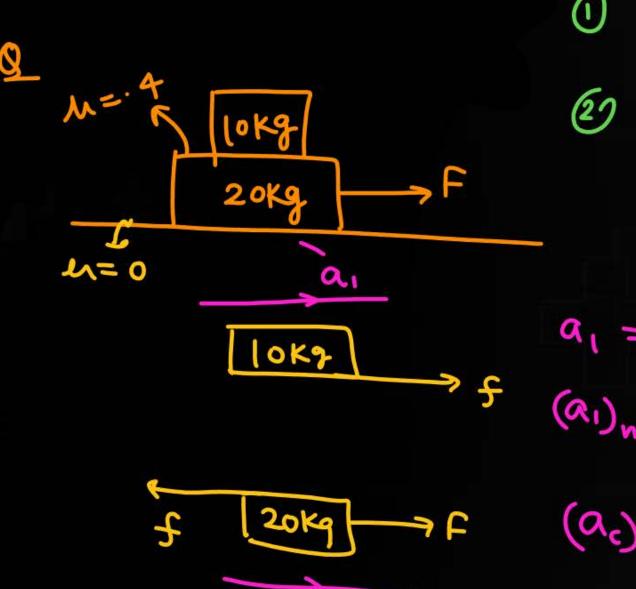


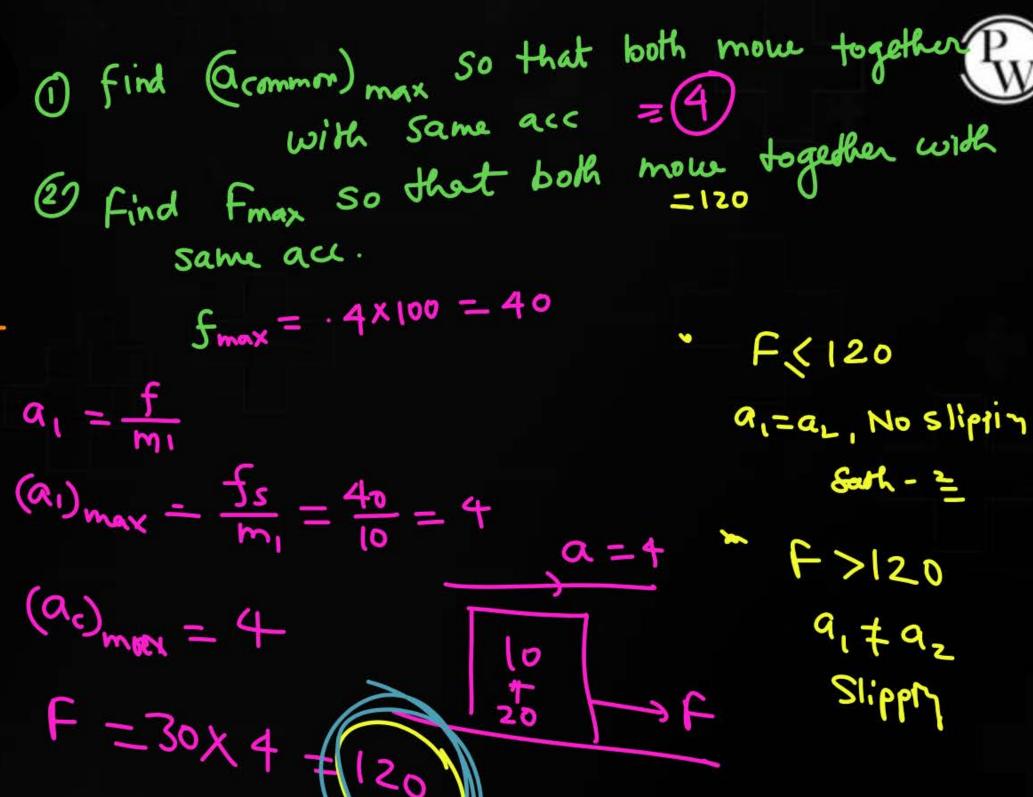




Angle of repose 7 (Sg) mark mosino = limpeno Ms = tano

2.00





F < 120 => माय - =



