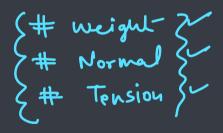
Introduction to Vector and Forces -3

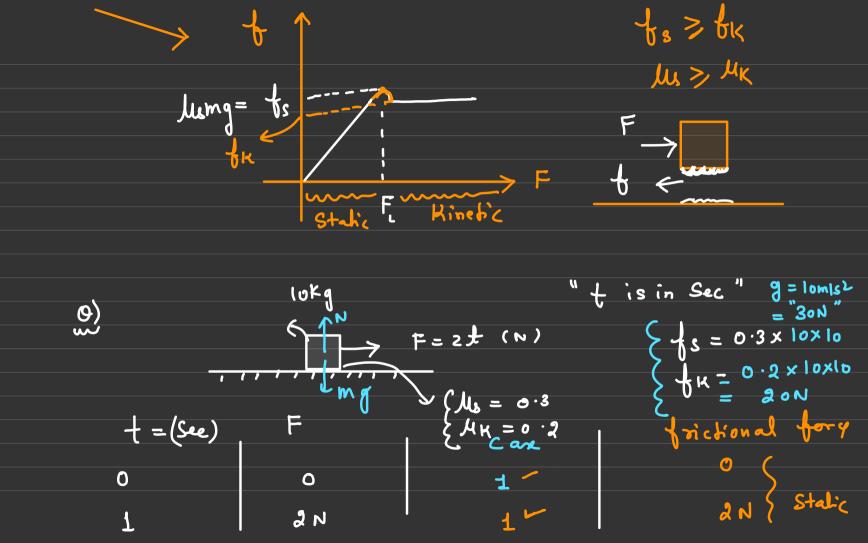


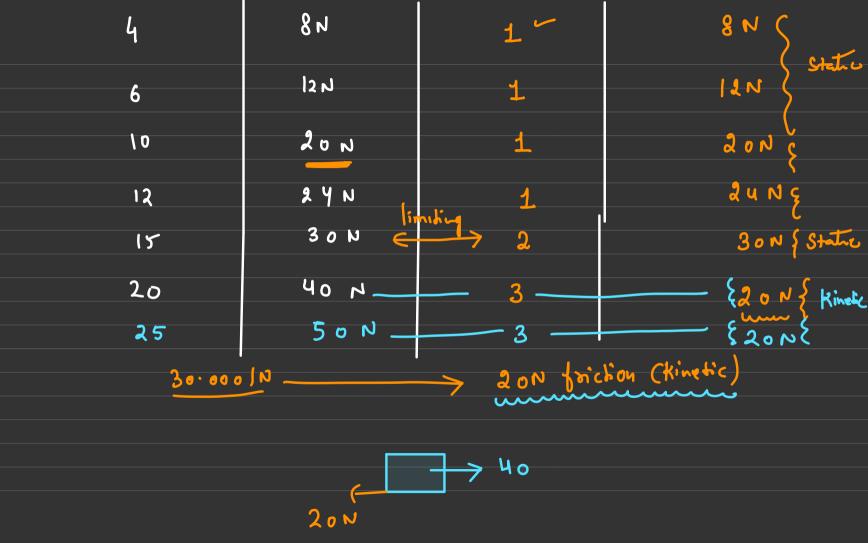


	•

(Push, pull) Friction: it opposes slipping
or slipping tendency " usd (groughness) / Case I Carell CareI when block F(1) when block when block is not isjust TK = { MK N{ "fixed" is actually Slipping

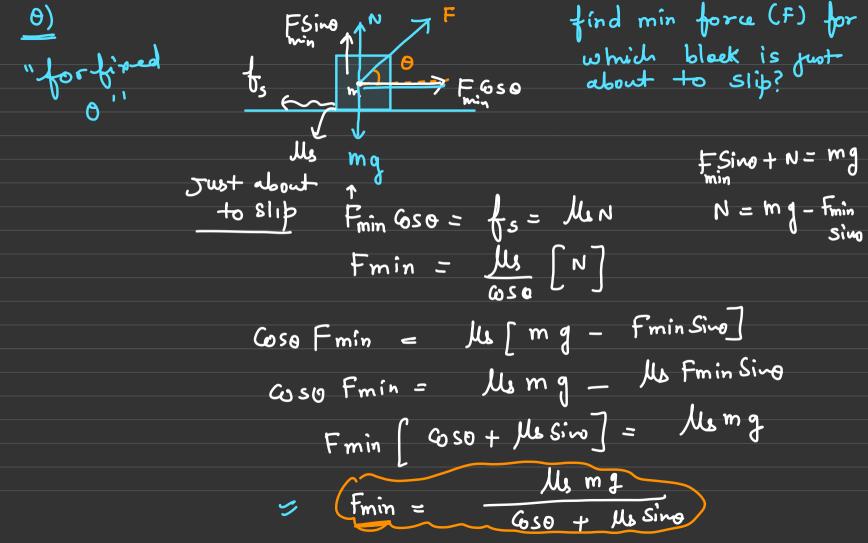
block has about to Slib Slipping Ts= 16 N-Coefficient of Kinetic friction force tendency Coefficient (Enet) along the of Static Surface = an'chionel E for chonal limiting frictional force State This is normal of between Static





THE TOKE "Remove" ¿ if we remove for a from here (50N) then } E Whinately, it is going to Stop. ① just befor stopping → what is forictional force? M = [Me = MK] (66 Slipping more or less does not change any value of Kinetic foictional fore (1) just after stopping; 1=000 > F=0

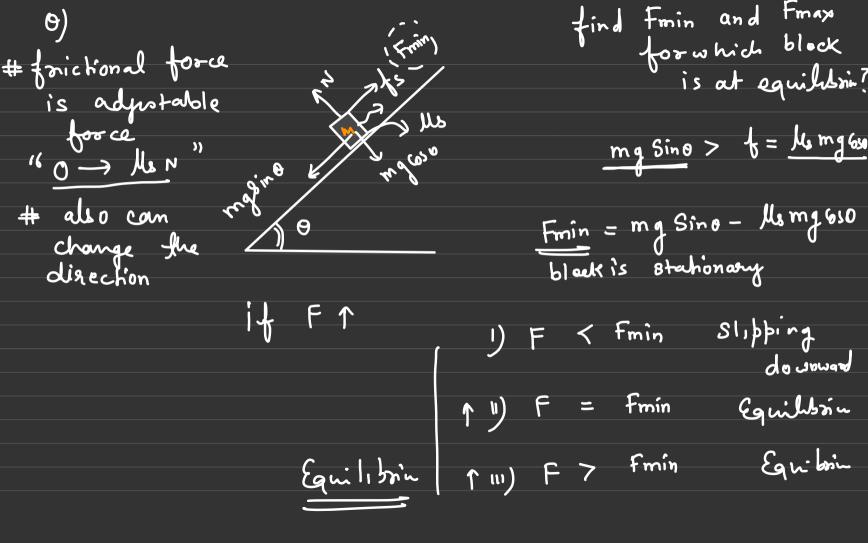
+an o le black i's obout Slip? tan (M)



$$\begin{cases}
\theta = 30 \rightarrow \text{Fmin} \rightarrow \text{Ms m g} \\
\sqrt{3} + \text{Ms k}
\end{cases}$$

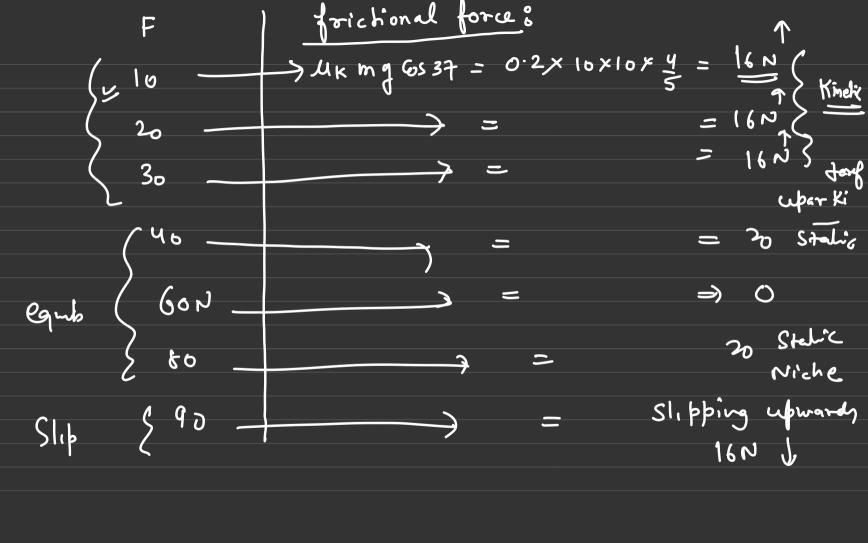
$$\begin{cases}
0 = 45 \rightarrow \text{Fmin} \rightarrow ()
\end{cases}$$

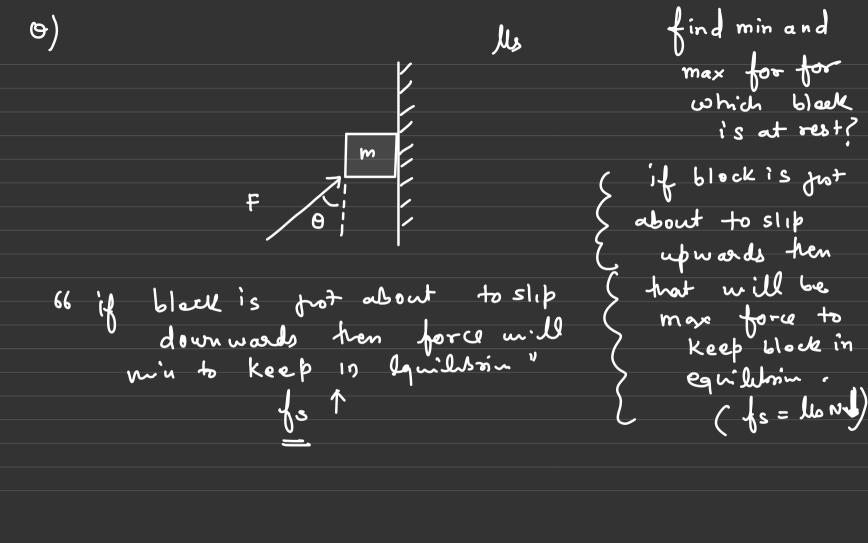
$$\begin{cases}
0 = 60 \rightarrow \text{Fmin} \rightarrow ()
\end{cases}$$



1 v) F= mg Sino v) F>my Sino (v) fmax = fs + m gsino

find min and max value of F for which black is in equilbria? Us mg 65 37 mg Sin37 10 10 10 7 3 = (60) mgsin 37 - Mom g 6037 24 - 84 N Fmax =





maximum: (for a) for which black is E Fmax Sino in equilibriu Fmax 650 = mg + fs Fmax 650= mg + le (N) Fmax 650 = mg + M (Fmax Sim) $Fmax = \frac{m}{\cos s} = \frac{d}{\cos s}$ > Fmin = 650 + Jes 5'00

Homewook;

10=37

m

find main and maps
for which block is
in equilibrin?

Find Frago and Frais to keep this black in equilibric? work 'Level 1 (module) Pre-dass: { Section (Vector Sultarhim) + Relative }