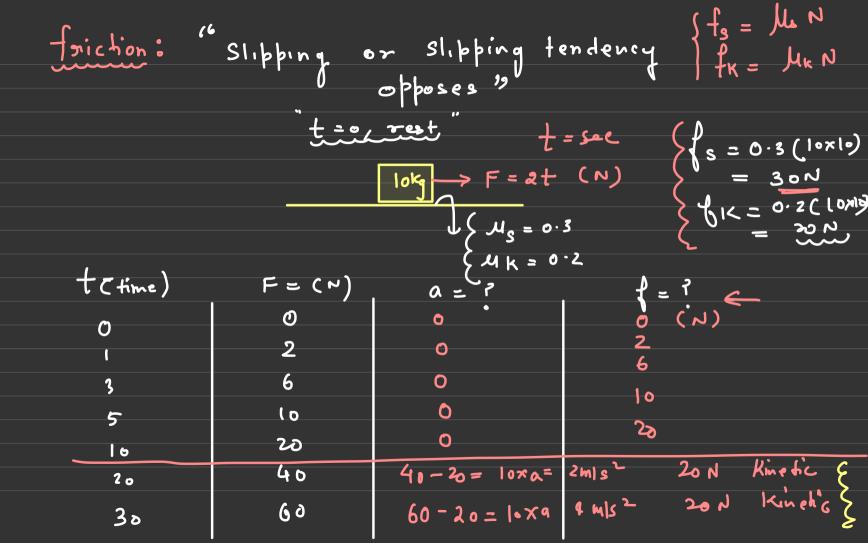
Dynamics 2



1
/



by
$$S_{1}$$
 S_{2} S_{3} S_{4} S_{4} S_{5} S

 $S = 10 \times (\frac{10}{8}) + \frac{1}{2}(-8.4) \times (\frac{16}{8.4}) = (S)$

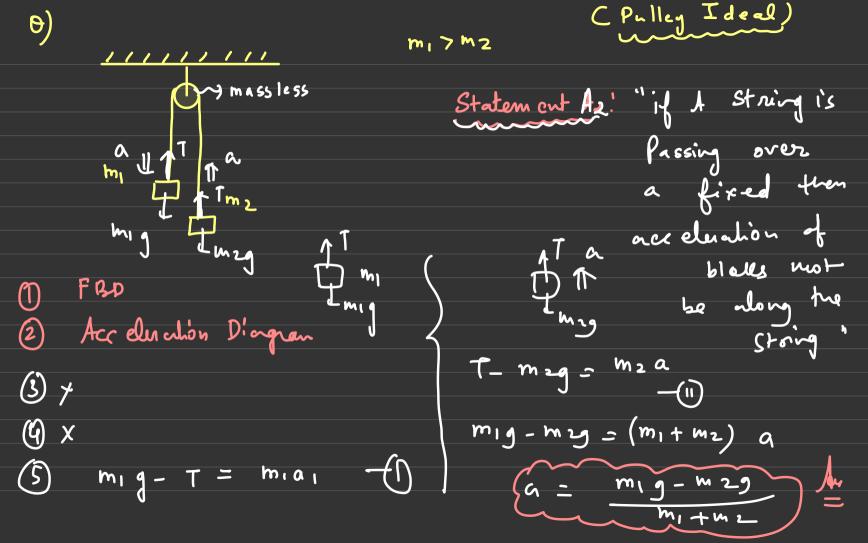
$$S = \frac{1}{2} \alpha + 2$$

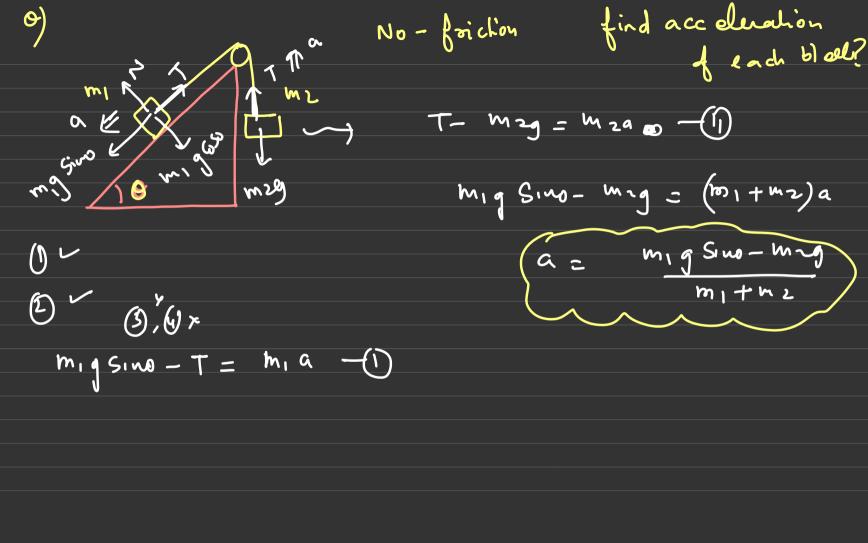
$$() = \frac{1}{2} (3.6) \times t^{1}$$

$$+ = (\frac{2.5}{3.6})$$

find Fmax and Fmin for which m and M i's not Slipping over each other? due to friction Fig going to be Rouge for which twee *₩=* 0 Relative motion if mis just about to slip upwards bet wen mand m? then F -> Frage for which there is -07 N no slipping mtm - Amix F = (m+m) amax mg o /ts

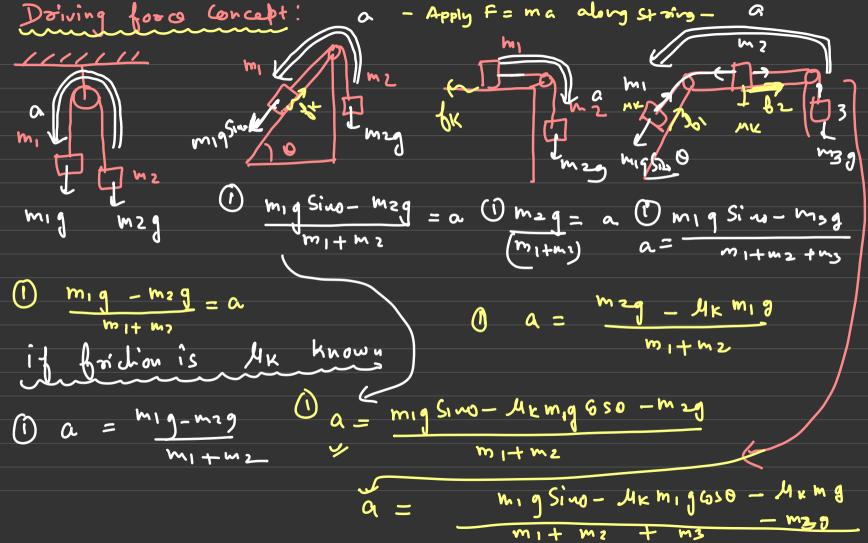
$$\begin{aligned}
& = (m+m) \int \left\{ \frac{\sin t + \sin \cos t}{\cos t - \cos \cos t} \right\} & = m \times \epsilon_{mage} \\
& = (m+m) \int \left\{ \frac{\sin t + \sin \cos t}{\cos t - \cos \cos t} \right\} & = m + \epsilon_{mage} \\
& = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t - \cos t} \right\} & = m + \epsilon_{mage} \\
& = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t - \cos t} \right\} & = m + \epsilon_{mage} \\
& = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = m + \epsilon_{mage} \\
& = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos t} \right\} & = \lim_{t \to \infty} \left\{ \frac{\sin t + \cos t}{\cos$$

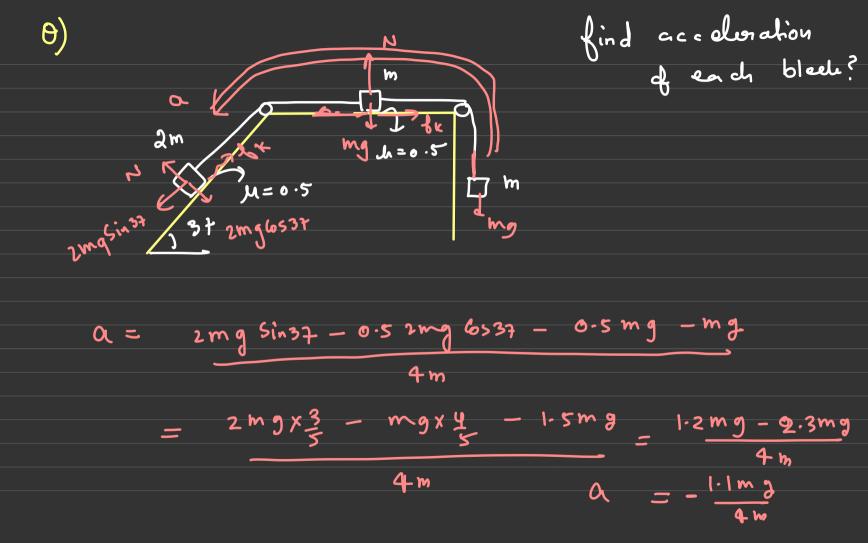




find acceleration of each black? m, g - / - m, a m₂ a m, g = (m,+ m) a

find accoleration of my m2 and m3? (No- forction m, 9 S.no - m39 = (m1+n2 +h3) a m, a (1) m, g Sino - T/ = mi m, g Sino - mg m2 9 -(11) /1 - T/2 = m2 ; m1 + m2 + 43 m3 a (111) T/2 -m3g = m 3





what does this mean inthis Disection acceluationis Reverse the direction of a in opposite disedis solin it

$$\begin{cases} blocks rest \\ a = 0 \end{cases}$$

$$2mq sin^{3} \begin{cases} bk_{2} \\ mg \end{cases}$$

$$bk_{1} = 0.5 (2mg6537) \qquad a = mg - 0.5mg - 2mg sin^{3} - 0.5 \\ 2mg sin^{3} \begin{cases} 2mg6337 \\ 4m \end{cases}$$

$$q = \sqrt{e}$$

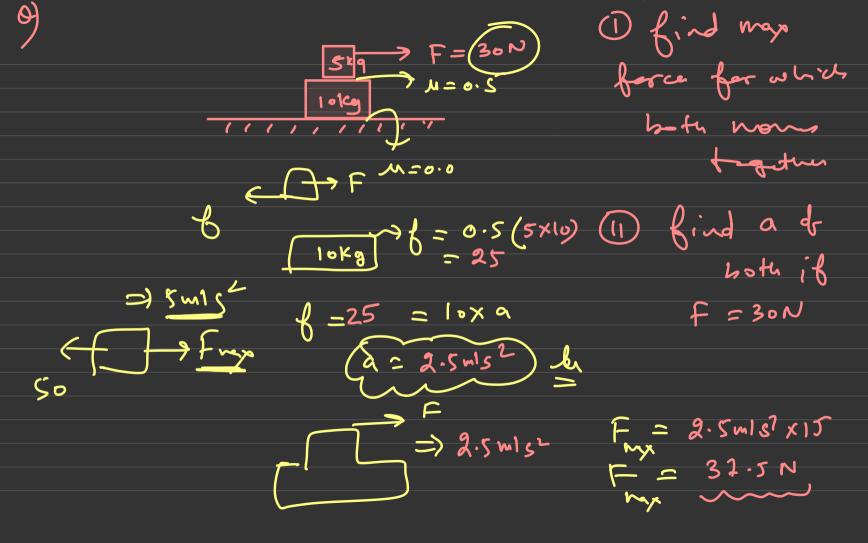
"all the blacks are rest" $a_{2m} = a_m = a_m = s$

Home work: find brickional forces acting on 2m and m' { Static }

find Fmax for which 8) Care I: mand M both moves together? ww m n us f M Fmax = a = lusg Frage - bs = Ma To= llesky = ma Fmax = M (lus g) + a = lus g F) Fmax -> slipping (fm)= lug(m+m) F (Fmx -) No-Slipping

"Both are woving tregethe" Care P:

M 5 mo ves "trather "



F
$$\langle$$
 Frage both moving trogother

 $30 = 15 \times 9$
 $9 = 2 \times 15^2$
 $9 = 2 \times 15^2$
 $30 = 4 = 5 \times 2$

6 = 30 - 10 = 20N a = zmls

