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yohandi -assignment 11
4.422=0
    (300 N. X) + (186 N. L2) - (500 N. LENA)=0
               300x + 254.375 m =687.5 m
                   2) # [X=1.44m]
   > 2Fx=0
     FAX - TOOS 8 = 0
      b) Fix = 500 15 N = 433 N (->)
   ·> 2Fy=0
      Fhy - 185 N-300N+ Tsm& = 0
             Fhy=1235 N (1)
       Ti. cos A. X = T2. cos p. (L-X) ... (1)
10. > SE=0
     >> 1Fx=0
         Tr. sin 8 = T2 smp . - (2)
     (2)10(1):
        TY smd cost. X = Tx cost (L-x)
             \frac{\frac{1}{2}\sqrt{3}}{\frac{1}{2}} \cdot \frac{1}{3}\sqrt{3} \cdot x = \frac{1}{2} \cdot (9.50 \text{ m} - x)
[x = 2.375 \text{ m}]
      Tsing. Loss + Toos & lsm& - mg. Lsin&= 0 ... (1)
24.>Zt=0
    ·) 2Fx=0
       Tan $ -N=0 _ (2)
    ·) ZFy=0
       Trosp + fs. -mg=0...(3)
    (2)1->(3):
     N 000 + MS. N - mg = 0
                 N = mo + cot o
                   => T= may ...(4)
        MS 811 $ + cos$ + MS. 811 $ + cos$ = MB & SIN &
                sin $ cos + cos p. sin $ = Ms. sin $ + cos $
                                 => Ms = (sin(0+0) - cos d) \ \frac{1}{\sin\phi} = \cot(0) = \(\frac{1}{20}\)
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both gylinders have the same strain

$$\frac{dA}{dg} = \frac{F_0}{F_A} = \left[ \frac{1}{4.84} = 0.207 \right]$$

$$fx=0$$
  
 $fs-Fhx=0 => Fh.am\theta = \mu s.N. - \omega)$ 

$$\sum \overline{t} = 0$$
  
 $Fh. \left(\frac{h}{\sin \theta}\right) - W\left(\frac{L}{2} \cdot \cos \theta\right) = 0 - .u_1$ 

$$c \cdot \chi_{coo} = \frac{z_{xi.mi.gi}}{z_{mi.gi}} = \frac{m(z_{yi.b+3.6})}{m(z_{gi})} d = \frac{22.8}{46.2} d = 1.974m$$