Tutorial-8



3000m

$$\frac{1}{M} = 30 \text{ kg}$$

$$\overline{\alpha} = 20 \text{ m/s}^2$$

$$(F_A + O_X)\hat{1} = m(a\hat{1}.$$

$$\left(\frac{1}{2}\hat{J}\right)\times\left(30\right)\left(\alpha\hat{I}\right)=-F_{A}\hat{F}$$

$$F_A = 15al = 15(20)(4)$$

2 (1) 2 w730 JBd + BhxmaB = MB  $\left(\frac{-l}{2}\sin 20^{\circ}\right)$ 

 $= + \frac{Mg}{2} \sin 30^{\circ} \hat{k}$   $- A_{2}(\cos 7^{\circ}) \left( 10030^{\circ} \hat{k} \right)$ 

- Az(six7°) lsinsok

Bx 4007° - By sin7 = Mg By 607° - Bn sin7 = Ma.

a  $(0)30^{\circ} = 9 \sin 30^{\circ}$ 

 $a = g + m(30^\circ) = 5.66 \text{ ms}^2$ 

$$N_1 = 509$$
  $f_1 > \frac{5(392)}{6}$ 

µN, = fi µ= fi N, 42

> (452 3)

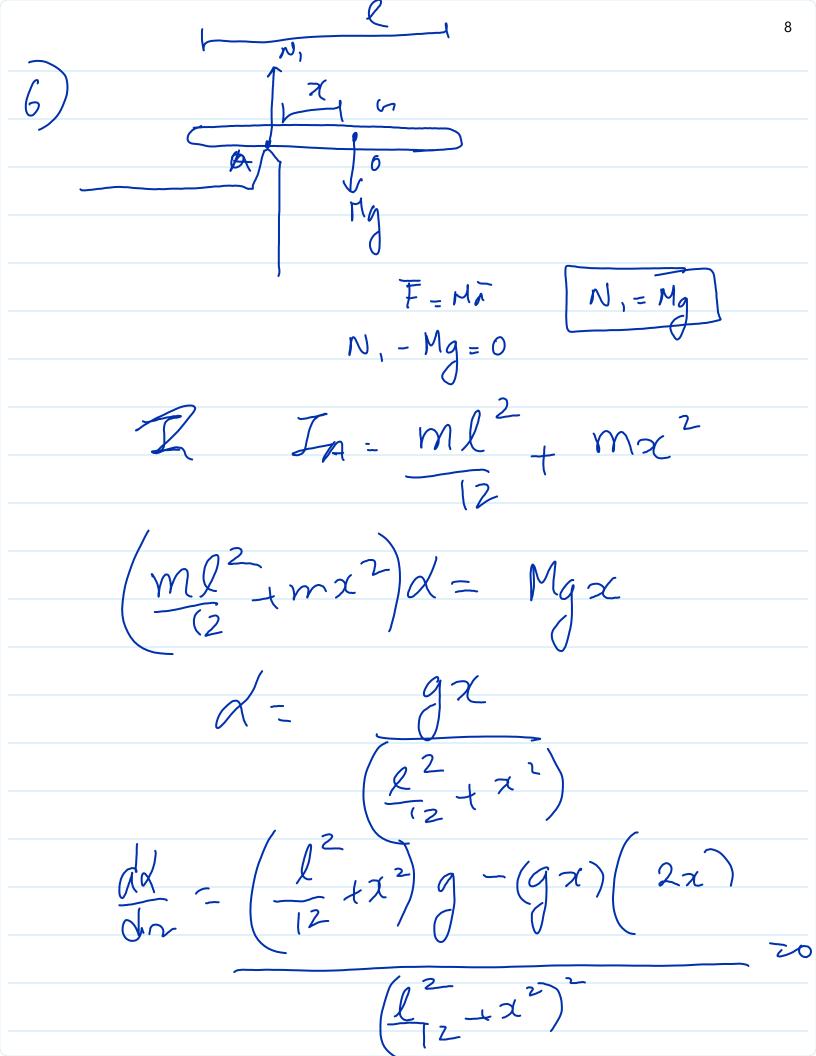
TA+TB = 8487+10 (w2)x

7x+7x= 168.87

Mn=0 0.3797B = 0.0547A

TA = 147.81 TB= 24.0620

dm= prodo Jam<sup>2</sup>sint = Sprdd 2 [-coso Ind + Ma 200d= M M912 d= M

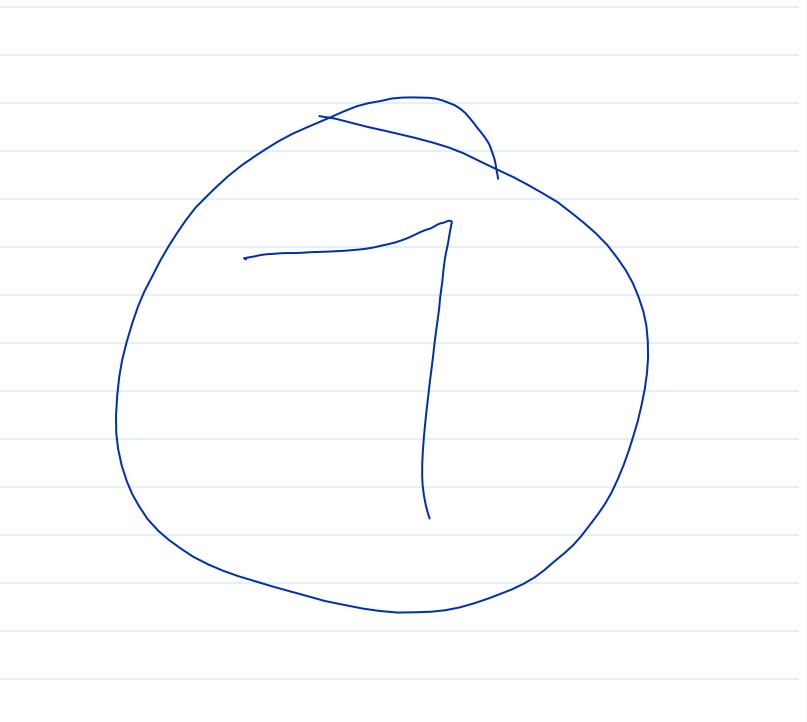


9/2c2= gll 2 1/2

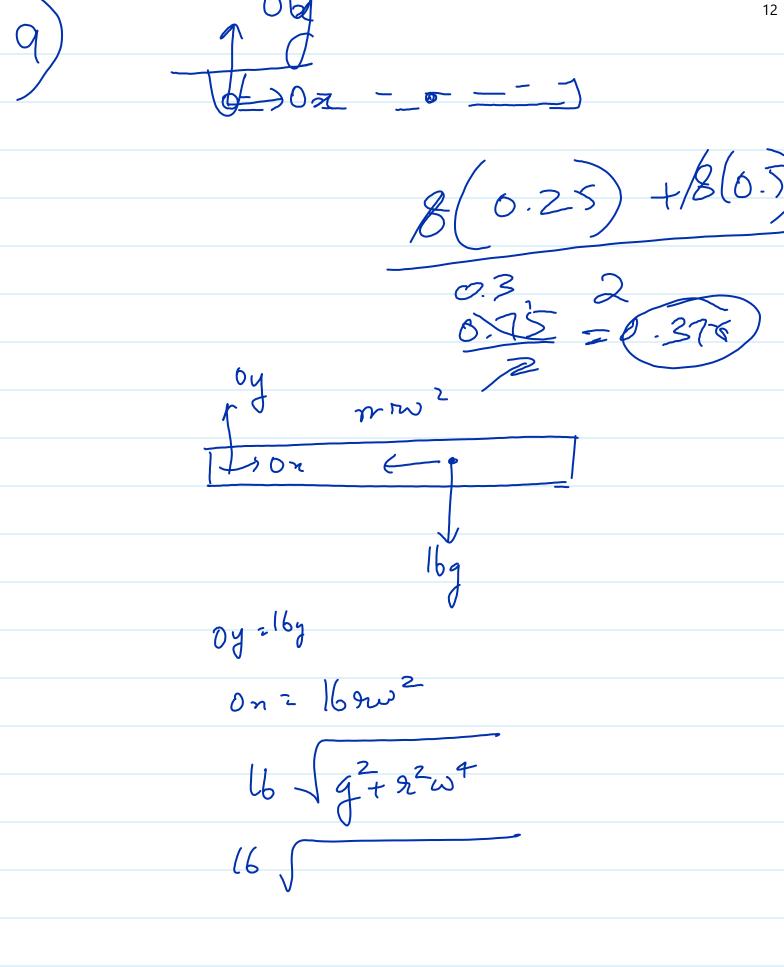
 $\chi = \frac{1}{\sqrt{12}} = \frac{\chi}{2}$ 

X - 3/12

6 X 3 J 3



0 = 16 · b



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