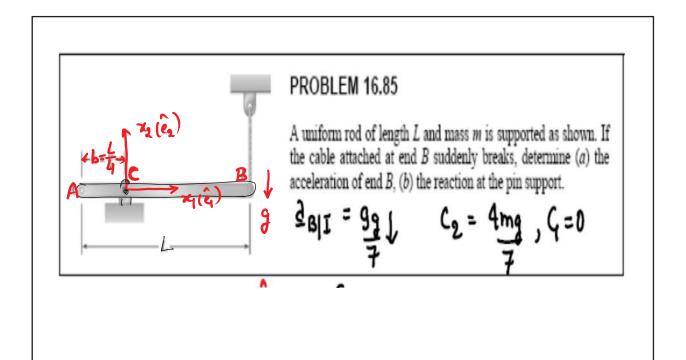
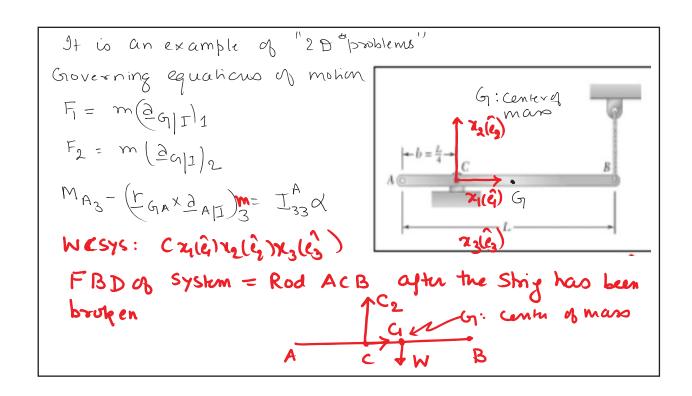
Set 7A





for Euler's first axiom aloy
$$\hat{q}$$
 $C_1 = m(\frac{1}{2}G_{\parallel 1})_1$ (i)

 $C_2 = m(\frac{1}{2}G_{\parallel 1})_1$ (ii)

 $C_3 = m(\frac{1}{2}G_{\parallel 1})_1$ (iii)

Euler's 2nd axiom aloy \hat{q} about point G_4
 $G_4 = m(\frac{1}{2}G_{\parallel 1})_1$ (iii)

 $G_4 = m(\frac{1}{2}G_{\parallel 1})_1$ (iv)

 $G_4 = m(\frac{1}{2}$

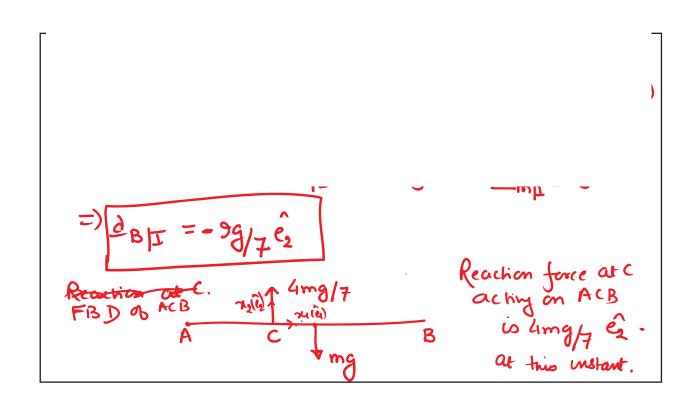
What are (26|1) and (20|1) ? Not Kinematics to get yelahouship. $(26|1) = \alpha \int_{4}^{2} \frac{\partial x}{\partial x} (26|1) = 0^{(y)}$ There are 2 additional equations.

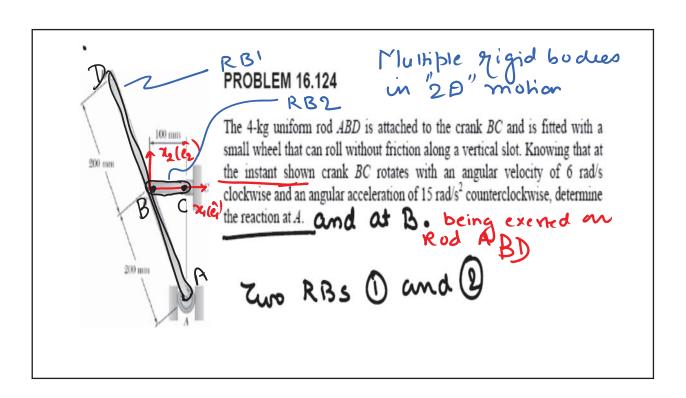
Now we have 5 wink nowns $(C_1, C_2, (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26|1), (26$

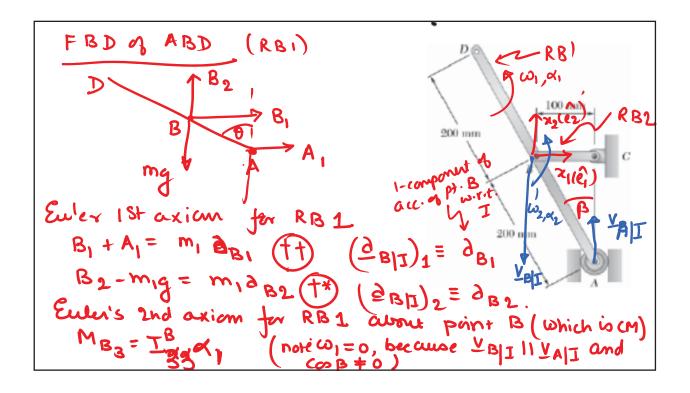
$$C_1=0$$
, $C_2=\frac{4 \text{ mg}}{7}$, $(\frac{3}{9})_1=0$, $(\frac{3}{9})_2=\frac{129}{28}$, $\alpha=\frac{-129}{78}$.
One we have α , we can readily find $\frac{3}{9}$

$$\frac{\partial_{B\Pi}}{\partial_{B\Pi}} = \alpha \hat{e}_{3} \times (30 \hat{e}_{3}) = 3 \frac{\alpha l}{4} \hat{e}_{3} = -99 \hat{e}_{3}$$

$$\frac{\partial_{B\Pi}}{\partial_{B\Pi}} = -99 \hat{e}_{2}$$







$$M_{B_3} = I_{33}^B \alpha_1$$

$$A_1 (000) = m_1 l^2 \alpha_1$$

$$Cqu'w_1 : 3$$

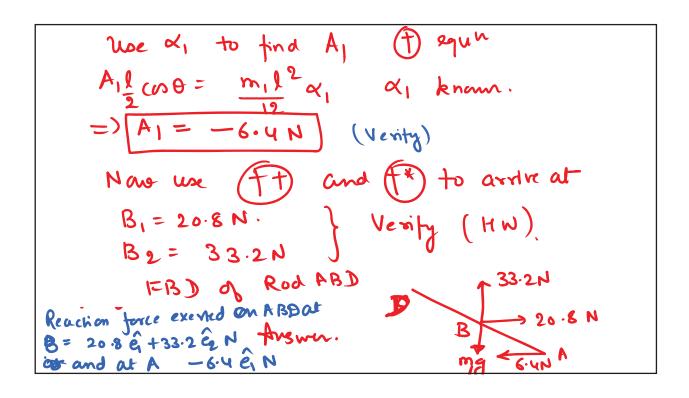
$$Let's investigate ki nematics for together and ABD from the Side of C, $\frac{1}{2}B|I$ Can be found. Using 2 as i. F. and cas i. R.

$$\frac{1}{2}B|I = \frac{1}{2}C|I + \frac{1}{2}C|I \times I$$

$$\frac{1}{2}B|I = \frac{1}{2}C|I \times I$$

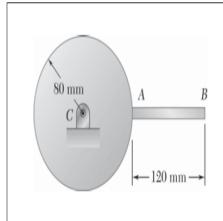
$$\frac{1}{2}C|I \times I$$

$$\frac{1}{$$$$



Set 7 B

Single RB

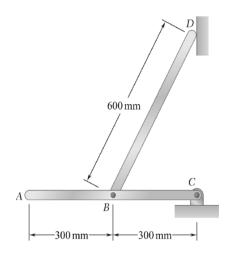


PROBLEM 16.87

A 1.5-kg slender rod is welded to a 5-kg uniform disk as shown. The assembly swings freely about C in a vertical plane. Knowing that in the position shown the assembly has an angular velocity of 10 rad/s clockwise, determine (a) the angular acceleration of the assembly, (b) the components of the reaction at C.

$$\alpha = 43.6 \text{ rad/s}^2$$

Two RBs



PROBLEM 16.134

Two 4-kg uniform bars are connected to form the linkage shown. Neglecting the effect of friction, determine the reaction at D immediately after the linkage is released from rest in the position shown.

$$\mathbf{D} = 1.618 \, \mathrm{N} \leftarrow \blacktriangleleft$$

For more problems, B&J Chapter 16