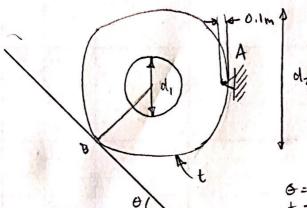
42.381 50.8HEETS EVE.EASE 5 SOLARE
42.382 100 SHEETS EVE.EASE 5 SOLARE
42.389 200 SHEETS EVE.EASE 5 SOLARE

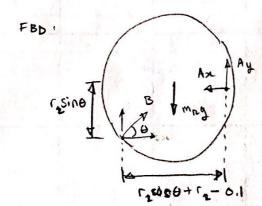
## 1. Given:



6=450 cl;=1m t=0.05m dz=2m

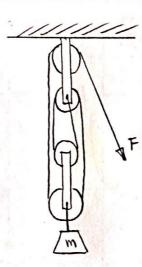
Find: reaction at B , R ,

Solution: 
$$m_{R} = 1.V$$
,  $V = (\pi \Gamma_{2}^{2} - \pi \Gamma_{1}^{2}) \cdot t$ ,  $p = 2.7g/cm^{3}$   
 $m_{R} = 2.7g/cm^{3} \cdot \pi ((00 cm)^{2} - (50 cm)^{2}) \cdot 5cm$   
 $-7 m_{R} = 318 \text{ kg}$ 



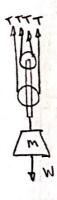
ΣFy: Ay + Bsind-mpg = 0 ΣFz: Bsine - Az = 0 ΣΜη: +Broso(resso + re - 0.1) + Mpg (re-0.1) = 0

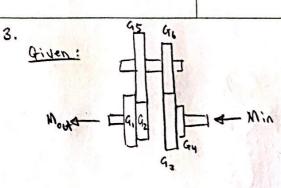
-> solve system:



Find: F

Solution: F = T in cable





192 = 3195 3193 = 5100 - 100 = 3190

Find: a) overall year ratio
b) Mout/Min

Solution:

a) 
$$G_{R} = \frac{\Gamma_{G_3}}{\Gamma_{G_6}} \cdot \frac{\Gamma_{G_5}}{\Gamma_{G_2}}$$
  
=  $\frac{5}{3} \cdot 3$ 

b) 
$$M_{in} = G_{in} M_{out}$$

$$\frac{M_{out}}{M_{in}} = \frac{1}{G_{in}}$$

$$\frac{M_{out}}{M_{in}} = \frac{1}{5}$$