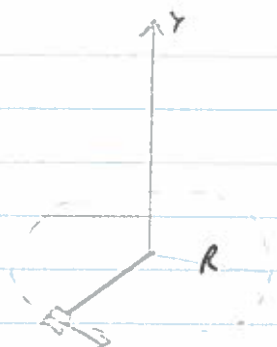
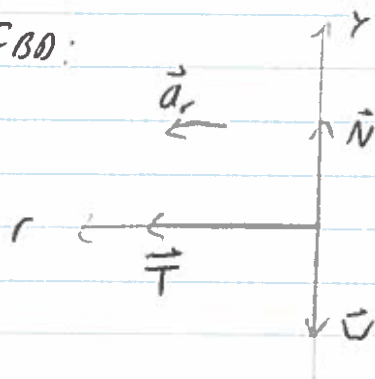


Ex 5-19  
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FBD:



Use NII along  $r$ -direction.

$$\Sigma F_r = ma_r = T$$

Tension  $T = \frac{m 4 \pi^2 R}{T^2}$

$$T = \frac{60s}{5} = 12s$$

$$= \frac{(25.0kg) 4 \pi^2 (5.00m)}{(12s)^2}$$

$$\underline{T = 34.3N}$$

