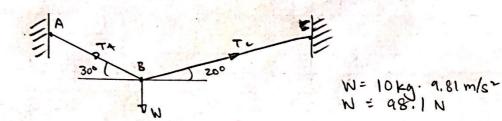


4.



time AB should be under greater tension it will be supporting in larger proportion of the weight due to the larger sin term, i.e. sin 30 > sin 20.

## BONUS!

$$\Sigma F_{x} = 0 \rightarrow -T_{A} \cos 30 + T_{C} \cos 20 = 0$$

$$T_{C} = T_{A} \cos 30$$

$$T_{C} = T_{A} \cos 30$$

$$T_A = 120,3N$$

$$T_C = T_A \cdot \frac{\cos 70}{\cos 20}$$