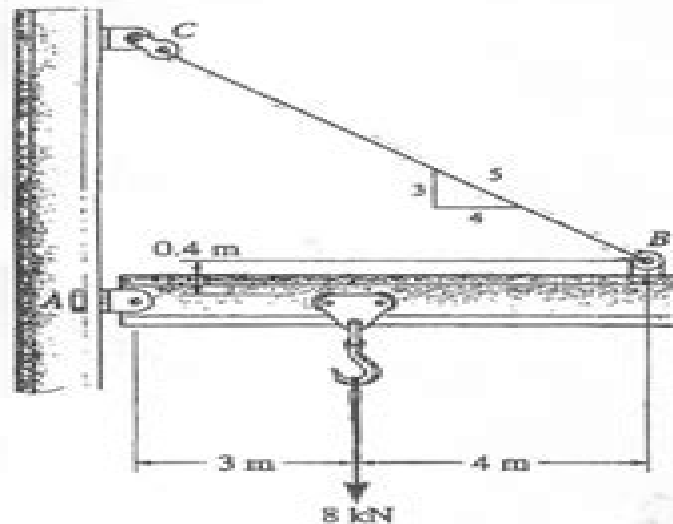


General Instructions

1. Closed books and closed notes. A one side A4 size formula sheet is allowed.
2. Write all your solutions in the space provided. Using back of the sheets is ok but you need clearly indicated on the front sheets.
3. You must draw a FBD for all the equilibrium problems. Make the diagrams and sketches as clear as possible, and show your derivations clearly. Incomplete solutions will receive only partial credit even if the answer is correct. Present your results in three significant digits with proper units; box your final results.

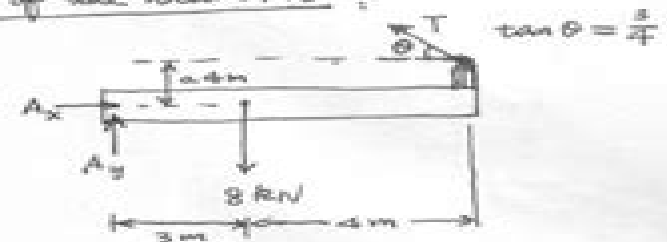
Problem 1 (20 points): A jib crane AB is shown below. It is pin-connected at A and supported by a cable BC. Neglect its weight. Find the reaction force at A and the cable tension.



Knowns: pin support at A;
BC is a cable; neglect the ^{beam} weight.

Find: reaction force at A: A_x, A_y ;
cable tension, T .

FBD of the beam AB:



Eqs. of Equilibrium:

$$(\sum) \Sigma M_A = 0: (T \cos \theta)(0.4\text{m}) + (T \sin \theta)(7\text{m}) - (8\text{ kN})(3\text{m}) = 0$$

Hence, $T \left(\frac{3}{4}\right)(0.4\text{m}) + T \left(\frac{3}{5}\right)(7\text{m}) = 24\text{ kN}\cdot\text{m}$

$$\boxed{T = 5.31\text{ kN}}$$

Also, $(\sum) \Sigma F_x = 0: A_x - T \left(\frac{3}{5}\right) = 0, \quad A_x = \frac{3}{5}T = \boxed{4.25\text{ kN} = A_x}$

$(\sum) \Sigma F_y = 0: A_y - 8\text{ kN} + T \left(\frac{4}{5}\right) = 0, \quad A_y = 8\text{ kN} - \frac{4}{5}(5.31) = \boxed{4.81\text{ kN} = A_y}$

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John Milton



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