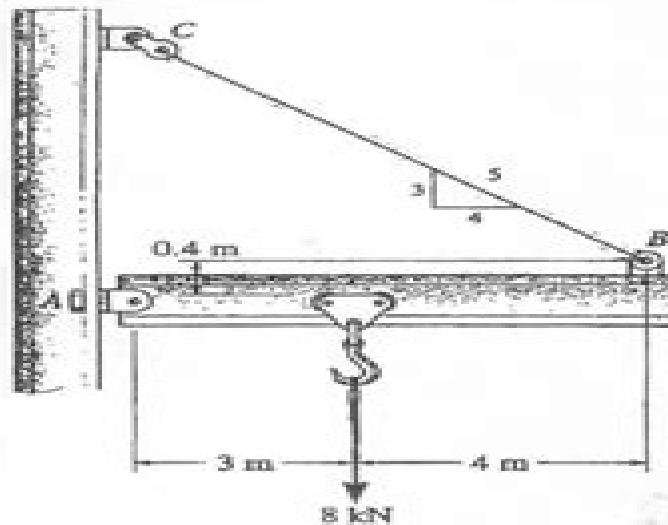


**General Instructions**

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; beam BC is a cable; neglect the weight.

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

FBD of the beam AB:



Equations of Equilibrium:

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

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

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

Also,  $(\pm \sigma) \sum F_x = 0: A_x - T \left(\frac{4}{7}\right) = 0 \quad A_x = \frac{4}{7} T = \boxed{4.26 \text{ kN} = A_x}$

$(\pm \tau) \sum F_y = 0: A_y - 8 \text{ kN} + T \left(\frac{3}{7}\right) = 0 \quad A_y = 8 \text{ kN} - \frac{3}{7}(5.31) = \boxed{4.91 \text{ kN} = A_y}$

# Answers For Statics Plato

**EW Minium**

**Answers For Statics Plato:**

## **Answers For Statics Plato** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Answers For Statics Plato**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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