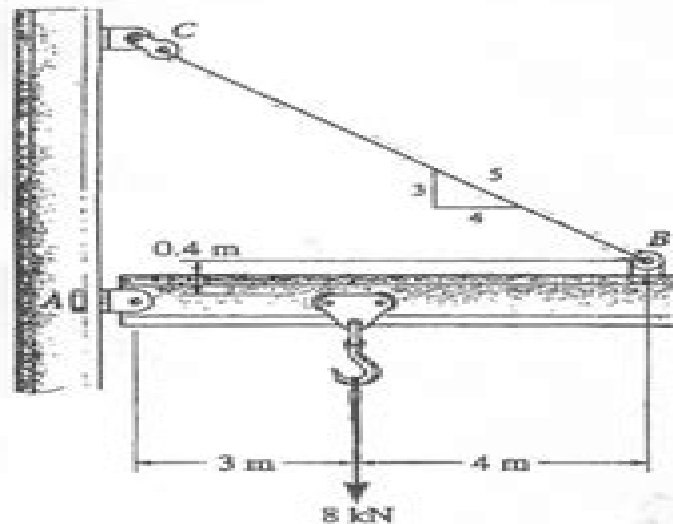


General Instructions

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.

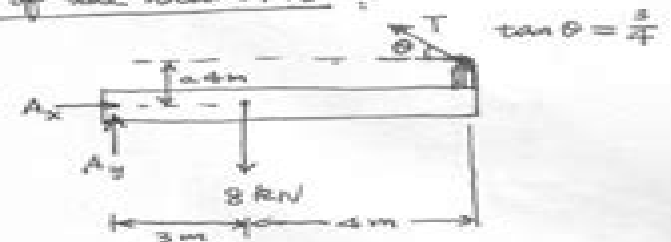
Problem 1 (20 points): A jib crane AB is shown below. It is pin-connected at A and supported by a cable BC. Neglect its weight. Find the reaction force at A and the cable tension.



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:

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

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

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

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

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

Answers For Statics Plato

Plato



Answers For Statics Plato:

Statistics of the Educational Institutions of the East India Company in India Sykes (Colonel, William Henry), 1845
Plato's Phaedo Plato, 1885 PGT Philosophy Question Bank Chapterwise - for PGT Teachers Mocktime Publication, PGT
Philosophy Question Bank Chapterwise for PGT Teachers *Plato & English Romantics* Douka Kabitoglou, 2002-11-01 First
Published in 1990 Routledge is an imprint of Taylor Francis an informa company **The Chronology of Plato's Dialogues**
Leonard Brandwood, 1990-11-22 Dr Brandwood's book analyses Plato's diction and prose style in the dialogues *Plato's
forms, mathematics and astronomy* Theokritos Kouremenos, 2018-05-22 Plato's view that mathematics paves the way for his
philosophy of forms is well known This book attempts to flesh out the relationship between mathematics and philosophy as
Plato conceived them by proposing that in his view although it is philosophy that came up with the concept of beings which
he calls forms and highlighted their importance first to natural philosophy and then to ethics the things that do qualify as
beings are inchoately revealed by mathematics as the raw materials that must be further processed by philosophy
mathematicians to use Plato's simile in the Euthedemus do not invent the theorems they prove but discover beings and like
hunters who must hand over what they catch to chefs if it is going to turn into something useful they must hand over their
discoveries to philosophers Even those forms that do not bear names of mathematical objects such as the famous forms of
beauty and goodness are in fact forms of mathematical objects The first chapter is an attempt to defend this thesis The
second argues that for Plato philosophy's crucial task of investigating the exfoliation of the forms into the sensible world
including the sphere of human private and public life is already foreshadowed in one of its branches astronomy Plato
(Arguments of the Philosophers) J. C. B. Gosling, 1973 Altera Colloquia Latina Desiderius Erasmus, 1908 *Arcades* John
Milton, 1930 A collection of articles relating to arcades and retail precincts in Perth , *The Epistles of Paul the Apostle
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Desiderius Erasmus, 1907 **The General Epistle of James** Arthur Carr, 1899 **Livy** Livy, 1896 **The First Book of
the Kings** William Emery Barnes, 1932 **The First Book of Maccabees with Introduction and Notes** John Sutherland
Black, William Fairweather, 1897 *Edmund Burke Speeches on American Taxation and Conciliation with America* , Q.
Horati Flacci opera Horace, 1945 *The Cambridge Bible for Schools and Colleges* , 1899

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