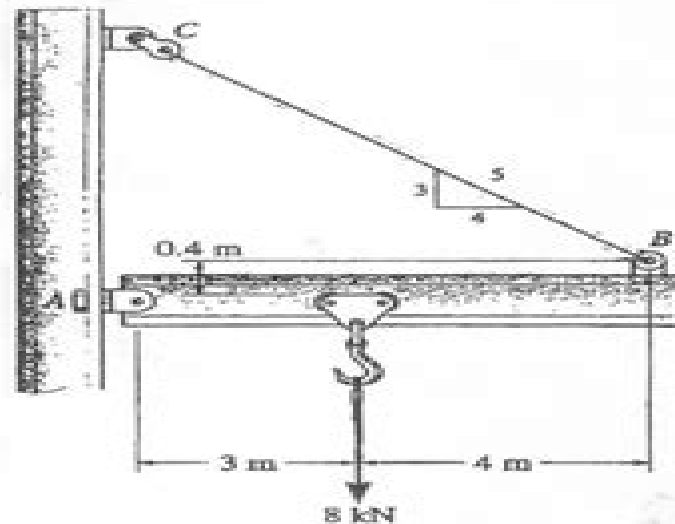


General Instructions

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.

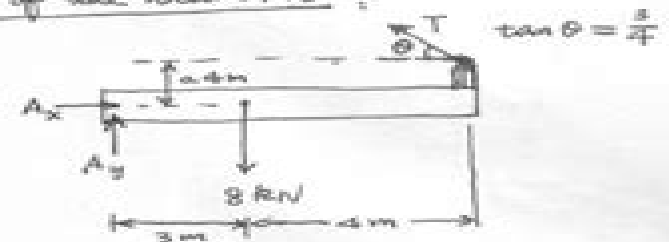
Problem 1 (20 points): A jib crane AB is shown below. It is pin-connected at A and supported by a cable BC. Neglect its weight. Find the reaction force at A and the cable tension.



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:

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

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

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

$$\text{Also, } (\sum) \Sigma F_x = 0: A_x - T \left(\frac{4}{5}\right) = 0, \quad A_x = \frac{4}{5}T = \boxed{4.25\text{ kN} = A_x}$$

$$(\sum) \Sigma F_y = 0: A_y - 8\text{ kN} + T \left(\frac{3}{5}\right) = 0, \quad A_y = 8\text{ kN} - \frac{3}{5}(5.31) = \boxed{4.81\text{ kN} = A_y}$$

Answers For Statics Plato

Robin Barrow



Answers For Statics Plato:

Plato's Phaedo Plato, 1885 *Statistics of the Educational Institutions of the East India Company in India* Sykes (Colonel, William Henry), 1845 **PGT Philosophy Question Bank Chapterwise - for PGT Teachers** Mocktime Publication, PGT Philosophy Question Bank Chapterwise for PGT Teachers **Plato's Gorgias** Plato, 1883 *Plato & English Romantics* Douka Kabitoglou, 2002-11-01 First Published in 1990 Routledge is an imprint of Taylor Francis an informa company **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 Robin Barrow, 2014-10-23 Plato was the first and most formidable thinker to recognise that education is a fiercely contested concept and to point out what great social and personal issues are at stake in education He articulated a compelling argument for a liberal arts education as something peculiarly befitting free and autonomous beings He understood the centrality of education for human well being and flourishing And he was the first to set forth a systematic theory of education In this text Robin Barrow concisely and convincingly establishes the continuing relevance of Plato's views to debates on such issues as nature vs nurture or genetic inheritance vs social background philosophy vs sophistry or the pursuit of true understanding vs the pursuit of reputation or perhaps simply truth vs politics and the media Questions concerning the fair distribution of education moral education value judgments and human nature are explored along with themes more specifically associated with Plato's philosophy such as the Theory of Ideas The whole is embedded in a clearly presented account of the historical background to Plato's thought 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 **Proceedings**, 1985, **Edmund Burke Speeches on American Taxation and Conciliation with America**, Colloquia latina Desiderius Erasmus, 1907 *The General Epistle of James* Arthur Carr, 1899 **The Cambridge Bible for Schools and Colleges**, 1899 *Q. Horati Flacci opera* Horace, 1945 *The First Book of Maccabees with Introduction and Notes* John

Sutherland Black, William Fairweather, 1897 *English Grammar for Beginners* Alfred Slater West, 1925 *Livy* Livy, 1896
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