

## Mechanical Engineering Science past paper questions (statics and stress):

**2016:**

### Question B1

- a) The truss shown in Figure QB1 is used to support a balcony, and is subjected to  $P_1 = 60\text{kN}$  and  $P_2 = 40\text{kN}$ . Calculate the force in each member of the truss, stating whether the members are in tension or compression.

[12 marks]

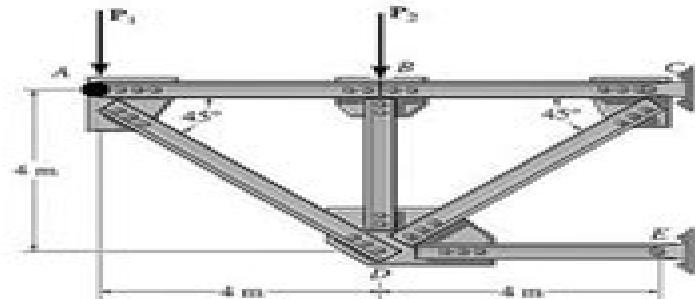


Figure QB1

- b) A boat sits on a slipway that is inclined at  $20^\circ$  to the horizontal. The boat is attached to a winch at the top of the slope via a cable that is parallel to the slope. If the boat weighs  $2000\text{kg}$ , and  $\mu_s = 0.3$  between the boat and the slipway, calculate what tension is required in the cable to initiate the movement of the boat up the slope. (Take gravity as  $9.81\text{ ms}^{-2}$ ).

[8 marks]

### Answers:

B1a  $AD = -84.85\text{kN}$  (C),  $AB = 60\text{kN}$  (T),  $BD = -40\text{kN}$  (C),  $DC = 141.44\text{kN}$  (T),  $DE = -160\text{kN}$  (C).

B1b Tension required =  $12.24\text{kN}$

# Engineering Science Past Exam Questions

**Michael Brown**



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