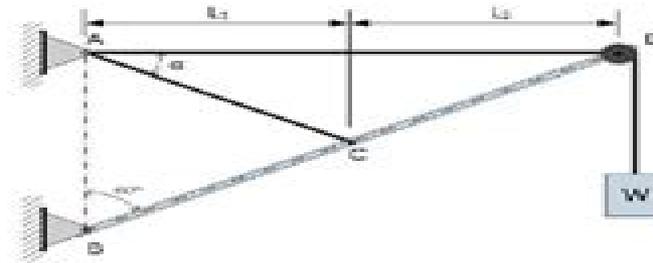


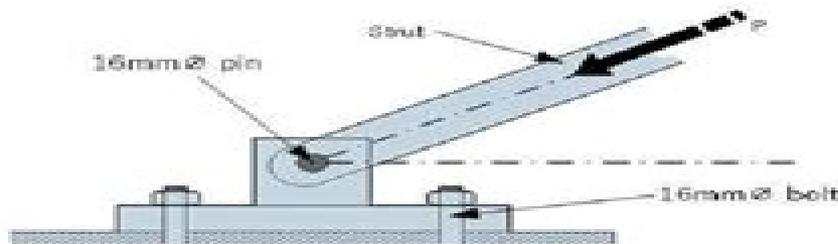
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(NOVEMBER 2011)**

**Situation 1** – A load of  $W = 30 \text{ kN}$  is lifted through a boom BCD as shown in the figure. The boom makes an angle of  $60^\circ$  with the vertical. Neglect the weight of the boom and for this problem,  $L_1 = L_2 = 2 \text{ m}$ . The pulley at D is frictionless.



1. Determine the angle  $\alpha$ .
  - A.  $40^\circ$
  - B.  $35^\circ$
  - C.  $45^\circ$
  - D.  $30^\circ$
2. What is the tension in cable AC in kN?
  - A. 51.96
  - B. 25.36
  - C. 34.89
  - D. 43.21
3. What is the total reaction at B in kN?
  - A. 54.77
  - B. 43.21
  - C. 17.32
  - D. 51.96

**Situation 2** – The strut shown in the figure carries an axial load of  $P = 148 \text{ kN}$ .



4. Determine the bearing stress between the pin and the strut:
  - A. 463 MPa
  - B. 345 MPa
  - C. 285 MPa
  - D. 563 MPa
5. Determine the shearing stress in the pin.
  - A. 286 MPa
  - B. 368 MPa
  - C. 321 MPa
  - D. 341 MPa

# Civil Engineering Practice Problems

**Léo Pomar**



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