

**STRUCTURAL ENGINEERING & CONSTRUCTION  
(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.  $45^\circ$
2. What is the tension in cable  $AC$  in  $\text{kN}$ ?  
 A. 51.96  
 B. 25.36  
 C. 34.89  
 D. 43.21
3. What is the total reaction at  $B$  in  $\text{kN}$ ?  
 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

**Padhraic Smyth**



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