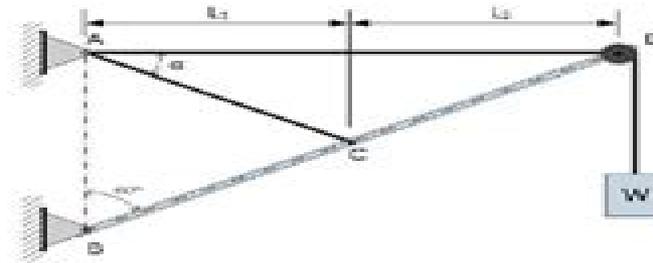


**STRUCTURAL ENGINEERING & CONSTRUCTION  
(NOVEMBER 2011)**

**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  $\text{MPa}$   
 B. 345  $\text{MPa}$   
 C. 285  $\text{MPa}$   
 D. 563  $\text{MPa}$
5. Determine the shearing stress in the pin.  
 A. 286  $\text{MPa}$   
 B. 368  $\text{MPa}$   
 C. 321  $\text{MPa}$   
 D. 341  $\text{MPa}$

# Civil Engineering Practice Problems

**Ali Asadi**

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