

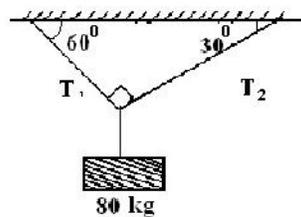


GE8292-ENGINEERING MECHANICS

TUTORIAL-1

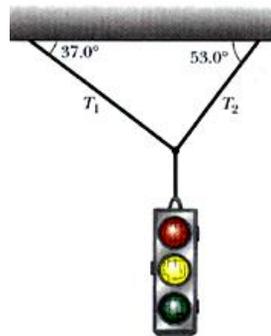
1.

A man of 80 kg is supported by two cable as shown the tension ratio of  $T_1 : T_2$  is



- 1)  $1 : \sqrt{3}$    2)  $\sqrt{3} : 1$    3)  $1 : 1$    4)  $2 : 1$

2. A signal pendant weighing 80 N is supported by two cables as shown in figure. Determine the tensions  $T_1$  and  $T_2$  in the cables



3. Two loads of 30 N and  $W_F$  are hung by a set of wire ropes as shown in figure. Determine the tensions in the wire ropes AB, BC and CD. Also determine the unknown weight  $W_F$  hung at the point B.

