IQRA NATIONAL UNIVERSITY

MID TERM ASSIGNMENT PAPER

SUBJECT: ENGINEERING MECHANICS

SEMESTER: SPRING FALL 2020

MODULE: 2ND SEMESTER

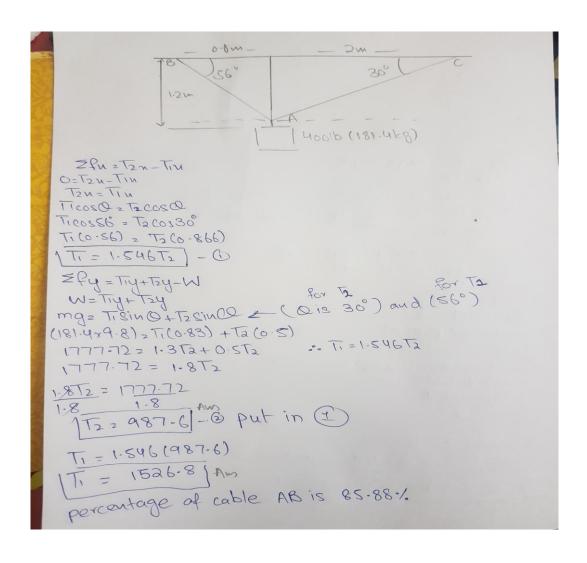
ID: 16083

INSTRUCTOR: MAJID NAEEM

NOTE: Attempt all questions.

Q1: Part (a): Two high strength flexibleof the system?

ANS:

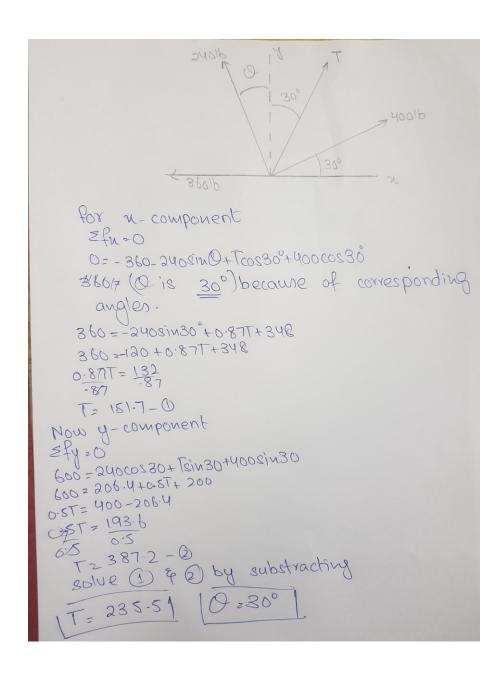


Part (b): If the water weight and volume results of part (a).

ANS: If the water tank weight and volume of water are increased 15% and 35% respectively then both the tensions in the cable AB and AC will also increase according to the percentage of the weight.

Q2: Four forces are exerted on the eye bolt as shown in figure. If the net effect on the bolt is a direct pull of 600 pounds in the y direction. Determine the values of T and Q.

ANS:



Q3: Calculate the reactions at supports.

ANS:

