University of Palestine

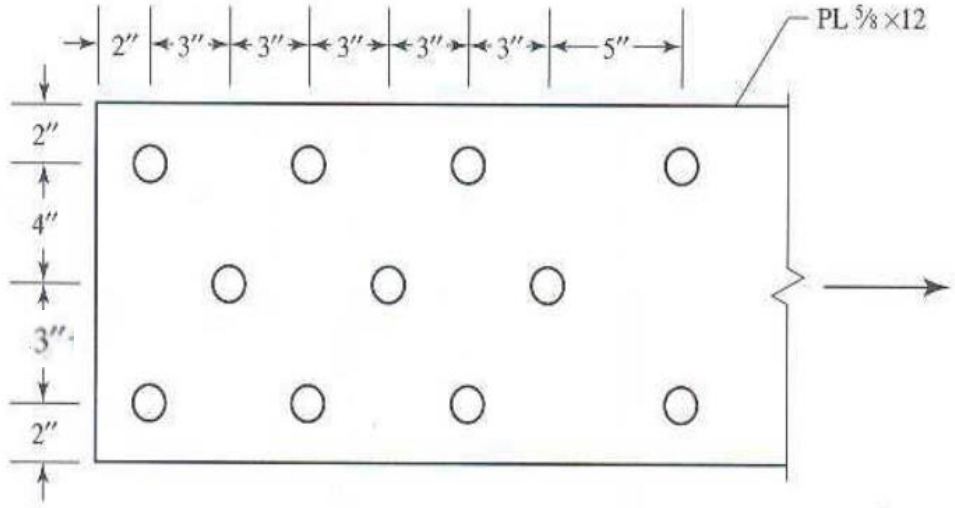
Course No: CVL 2310
Course Title: Steel Structure
Date: 13/3/2018
No. of Questions: (2)
Time: 1hours
Using Calculator

First Middterm Exam
Second Semester
2017/2018
Total Grade:

Instructor Name: Dr.Ayed Zuhud
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary-Open book exam

Question One:

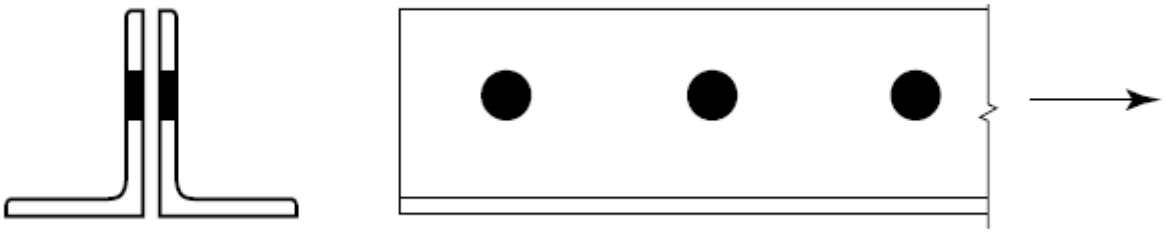
If A36 steel is used, what is the maximum factored load that can be resisted by the tension member shown in the figure .(*check for block shear*)



¾-in.-diameter bolts

Question Two:

A double-angle tension member, 2L 6 × 4 × 3⁄4 LLBB, of A36 steel is subjected to a dead load of 300 kips and a live load of 35 kips. It is connected to a gusset plate with 3⁄4-inch-diameter bolts through the long legs. Does this member have enough strength? Assume that Ae = 0.85An.



Section

End of Question
Good luck