QUIZ 6 - MATH 152 YOUR NAME:

Friday, October 21 George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. The end of the trough is an equilateral triangle of side 4 units and its length is 10 units. Assume that it is filled with water of density ρ to height 3 units. What is the fluid force on one of the triangular sides of the trough? (Assume acceleration of gravity g.)





