QUIZ 3 - MATH 102 Friday, September 13

YOUR NAME:_____ 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. How many gallons of a moonshine with alcohol content 24% per volume should be mixed with 2 gallons of a moonshine with alcohol content 15% per volume to get a 20% content per volume mixture?

2. Solve the inequality $7(x+5)-20 \leq 5-3(x+5)$; Express in interval notation and graph the solution set.

3. Solve the absolute value inequality $|10-3x| \geq 8$; Express in interval notation and graph the solution set.