QUIZ 5 - MATH 102

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. Jen, Liz and Katie went out to eat at a fast food restaurant. Jen ordered a salad and two burgers and her bill was $ 11.50. Liz ordered a salad and fries and her bill was $ 7.00. Katie ordered a salad, a burger and two fries and her bill was $ 13.00.

   (a) Introduce variables, state what they mean and write down three equations reflecting the data in the statement.

   (b) Solve the system you wrote in Part (a) to find how much the restaurant is charging for each of the three items that the three girls ordered. (Please, write your work cleanly so that I can follow.)

2. Evaluate or simplify the following expressions and leave your answers without negative exponents:

   $3^{15} \cdot 3^{-18} =$

   $2x^5 y^7 \cdot (-5x^2 y^{-9}) =$