## KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS DEPARTMENT OF MATHEMATICS AND STATISTICS MATH 102 - QUIZ 4

Name: Student ID #:

Question 1. Find the area of the surface generated by revolving the curve  $9x = y^2 + 18$ ,  $2 \le x \le 6$  about the y-axis.

**Question 2.** Evaluate the integral  $\int_{1}^{2} x^{x} (1 + \ln x) dx$ 

Your Solution.