King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 131- Test 1

Exercise 1 *A young professional wishes to have $860000 in his retirement account. Its current value is $36000.She invests $900 monthly in the account which earns 8.1% annually. Find the number of payments needed to reach his goal.In how many ways can 7 students be seated in a row of 7 chairs if Jack insists on sitting in the first chair?*

Exercise 2 *Find the present value for a $110,000 investment for 10 years at a compounded continuously at 3.3%.*

Exercise 3 *Find the accumulated present value of a 19-year $120,000 continuous income stream that has been compounded continuously at 4.4%. Round to the nearest dollar.*