Math 221
QUIZ 7

Name:

1. Find the maximum and minimum values of \((1 - x)^5 + 5x\) for \(1 \leq x \leq 3\) and give the values of \(x\) where the maximum and minimum occur.

2. Suppose that we wish to construct a rectangular box with a square base. If we require that the surface area of the box is 54 square feet, what is the largest possible volume of the box?

3. If you finish early, please write down your best piece of trivia or interesting fact.