

Math 131 (Term 153) - Quiz 1

Student Name _____ Student ID: _____

Exercise 1 [5 points]

The demand function for an office supply company's line of plastic rulers is $p = 0.9 - 0.00045q$, where p is the price (in dollars) per unit when q units are demanded (per day) by consumers. Find the level of production that will maximize the manufacturer's total revenue, and determine this revenue.

Exercise 2 [5 points]

Solve $\begin{cases} x = y + 1 \\ y = -2\sqrt{x + 2} \end{cases}$