

MA 16010 Quiz 10

Lesson 26-27

4 April 2022

Problem 1. A company's marketing department has determined that if their product is sold at the price of p dollars per unit, they can sell $q = 2800 - 200p$ units. Each unit costs 10 dollars to make. What is the equation that can be used to find the maximum possible profit?

(You do not need to actually maximize the equation, just right it down.)

Problem 2. Find the solution to:

$$\int \frac{x^2 - 1}{3\sqrt{x}} dx =$$

Remember to write $+ C$ at the end.