King Fahd University of Petroleum and Minerals Department of Mathematics and Statistics

Math 131 (Term 153) - Quiz 2

Student Name______Student ID: _____

Exercise 1 [3 points]

Find the equilibrium point if the supply and demand equations of a product are q - 40p + 400 = 0 and pq = 8000.

Exercise 2 [7 points]

| Use the geometric approach to maximize $Z = 1.2x + 0.8y$ subject to | $\begin{cases} x + y \le 8\\ 4x + y \le 20\\ x \ge 0\\ y \ge 0 \end{cases}$ |
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