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 $\begin{cases} x + y \leq 8 \\ 4x + y \leq 20 \\ x \geq 0 \\ y \geq 0 \end{cases}$