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:
\[
\begin{align*}
&x + y \leq 8 \\
&4x + y \leq 20 \\
&x \geq 0 \\
&y \geq 0
\end{align*}
\]