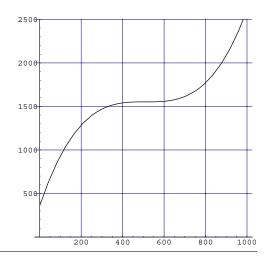
MA 120-04 §4.3 - 4.7	Quiz #5	score	Name:
1. Sketch a graph of a function $f(x)$ on			

- the interval $0 \le x \le 10$ with the following properties: f has local minimum at x = 3 and a local maximum at x = 8; f has a global maximum and a global minimum at the endpoints of its domain. Label the important points on your graph. (5 points)
- 2. If the marginal cost exceeds the marginal revenue at a particular production level, should production be increased or decreased to increase profit? Explain. (*5 points*)

3. For the given cost function, estimate the value of *q* that minimizes the average cost. Show in the graph how you estimate your result. *(5 points)*



4. For the logistic function $f(t) = \frac{450}{1 + 10e^{-0.15t}}$, use your calculator to approximate the value of f(25). What is the limiting value for f(t) as t increases? (5 points)