

Mathematics 122

Quiz #13

Name: _____

A group of students decide to sell Gamecock head bands at home games. Figure 1 shows the cost $C(q)$ (in dollars) and revenue $R(q)$ (in dollars) for selling q of the head bands.

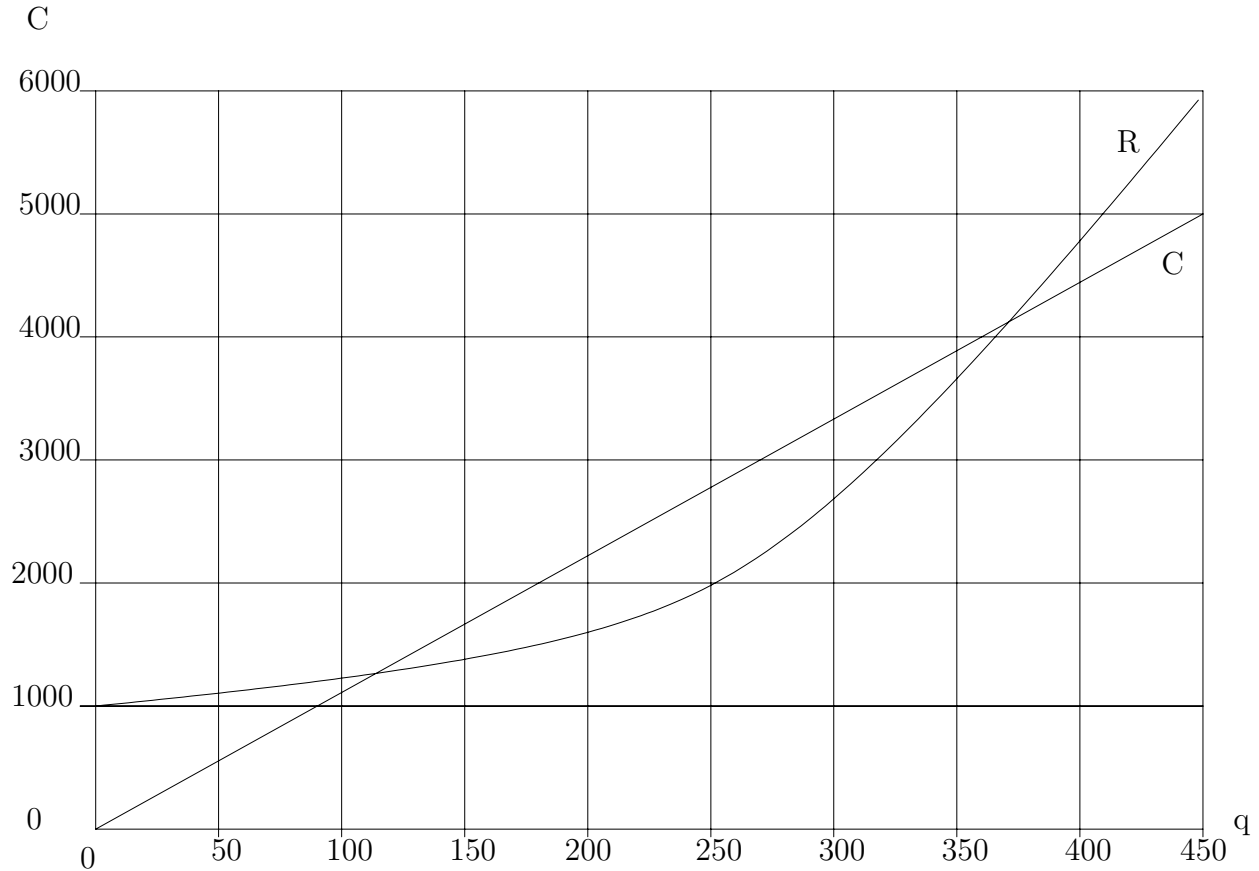


FIGURE 1

- (1) What are the startup costs for the students? _____

- (2) At what price are the students selling the head bands? _____

- (3) Estimate the cost of producing the 350th head band. (That is estimate the marginal cost $C'(350)$.)
 $C'(350) \approx$ _____

- (4) Estimate the number of head bands the students should sell to maximize their profit.
