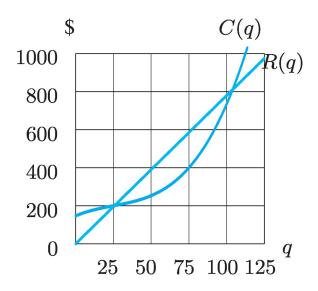
Name: Section 2.5 - In class example Math 151 - Spring 2019



1. Cost and revenue functions for a charter bus company are shown in the figure above. Should the company add a 50th bus? How about a 90th? Explain your answers using marginal revenue and marginal cost.

- 2. A company's cost of producing q liters of a chemical is C(q) dollars; this quantity can be sold for R(q) dollars. Suppose C(2000) = 5930 and R(2000) = 7780.
 - (a) What is the profit at a production level of 2000?
 - (b) If MC(2000) = 2.1 and MR(2000) = 2.5, what is the approximate change in profit if q is increased from 2000 to 2001? Should the company increase or decrease production from q = 2000?
 - (c) If MC(2000) = 4.77 and MR(2000) = 4.32, should the company increase or decrease production from q = 2000?