Name: _____   Grade: _____

Group Members Present:

_____ , _____ , & _____

1. The revenue for a benefit concert is given by $R(x)$ dollars where x is the number of tickets sold. The profit for the benefit concert is given by $P(x)$ dollars where x is the number of tickets sold.

   a. Write the notation for...
      i. the cost function in terms of $R(x)$ and $P(x)$. _____

      ii. the input of the cost function. _____

      iii. the output of the cost function. _____

   b. Write the unit of measure for the output of the cost function. _____

2. The amount of money spent by students at the college store is represented as $S(t)$ hundred dollars and the number of students spending money at the college store is represented by $n(t)$ students where t is the day of the month. The average amount spent by a student at the college store on day t is represented by $\overline{S}(t)$.

   a. Draw an input/output diagram for $\overline{S}(t)$.

   b. Write an equation for $\overline{S}(t)$.

   c. Write a sentence interpreting $\overline{S}(5) \cdot n(5) = 3.2$.