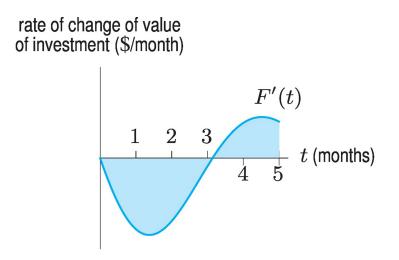
Name: Section 5.5 – example Math 151

1. The graph shows F'(t), the rate of change of the value, F(t), of an investment over a 5-month period.



- (a) When is the value of the investment increasing in value and when is it decreasing?
- (b) Does the investment increase of decrease in value during the 5 months.
- 2. The marginal cost, C'(q) (in dollars per unit) of producing q units is given in the following table

q	0	100	200	300	400	500	600
C'(q)	25	20	18	22	28	35	45

(a) If the fixed cost is \$10,000, estimate the total cost of producing 400 units.

(b) How much would the total cost increase if production increases one unit, to 401 units.