ECON 219: Problem Set #3

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Problem 1

Suppose that a certain wine dealer is in possession of a particular quantity of wine, which he can either sell at the present time (i = 0) for a sum of K dollars of else store for some length of time and then sell at a higher value.

- 1. Present an expression for the growing value (V) of the wine as a function of time.
- 2. Explain under what assumptions the mazimization of profits is the same as maxing the sales reneveus (V)
- 3. Under the assumption of part b, present the maximization problem of the wine dealer.
- 4. Present and intercept the first order condition of the preious problem.
- 5. Present and interpret the second order condition of the wine dealer's problem.
- 6. Obtain the optimum length of storage time.
- 7. Confirm that the previous answer defines a maximum and not a minimum.