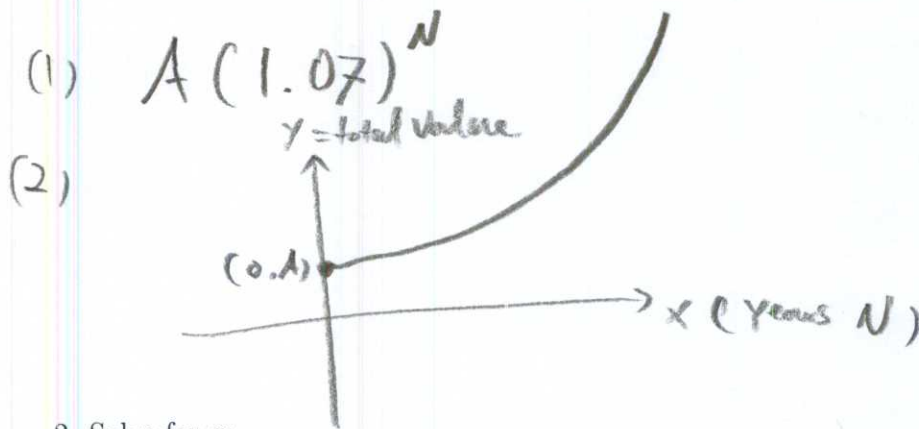


Quiz 4
MTH 13 Section E01
16 March 2017

Your name:

Instructions: Please answer the following and be sure to show your work or support your answer. You are not allowed to use the textbook, workbook, or notes. You cannot talk to other students. You may use your calculator.

1. Suppose A dollars are deposited to an ETF with 7% of APR.
 - (1) What is the total value of the investment after N years?
 - (2) Plot the graph of function obtained from (1) in the xy -plane. Here x -axis stands for years (N) and the y -axis the total value of the investment.



2. Solve for x :

$$\log_3 243 = 2x + 3.$$

$$243 = 3^5.$$

$$\log_3 243 = \log_3 3^5 = 5 \log_3 3 = 5.$$

$$\text{Hence } 5 = 2x + 3, \text{ and } x = 1.$$