

FALL 2000 MTH 131

QUIZ #3

NAME :

I Your parents offer to give you \$4000 dollars in 4 years, for a certain project, or the equivalent immediately. If your bank offers a 7% interest on saving deposits, and you choose to get the money right now, how much will get from your parents.

II Give the period and amplitude for each of the following functions.

a) $y = 3\sin 2x$

b) $y = -4\cos\left(\frac{1}{2}t\right)$

III An amount of \$500 was invested in 1970 and increased as shown by the following table. (Amounts are given for the beginning of the year)

Year	1970	1975	1980	1985	1990	1995
Capital	500	966	1856	3578	6876	13,233

a) Find the average rate of change of the capital between 1975 and 1995.

b) Estimate the rate of change at the beginning of 1985.