University of Bahrain
Bahrain Teachers College
TC2MA324: History of Mathematics
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## Quiz 6

Name: $\qquad$

1. (2 points) Find the Maturity (future) value and the amount of simple interest of saving 300 BHD at $3 \%$ for 11 months.
2. (2 points) You bought a laptop that costs 430 BHD using a credit card that charges $1.5 \%$ annually. Supposed you have not paid anything for 18 months. How much you owe the bank and how much is the bank interest?
3. (3 points) Find the maturity and the saving interest of investing 100 BHD each month in an account that pays $2.2 \%$ annually for 10 years?
4. (3 points) The inflation rate in the Kingdom of Bahrain for March 2015 was $2.2 \%$ per year. Assume a fast-food meal costs 1.800 BHD and assume the inflation rate will continue as it is, how many months it will take for the meal to cost 2.000 BHD?
5. (3 points) 1. Derive a formula that can be used to find the monthly installment $R$ of an amortization of a loan $P$ with annual rate $r$ to be paid back in $n$ years.
6. Use the formula you derived above to find the monthly installment of a house costs 144,000 BHD with interest rate $6 \%$ annually and to be paid back in 30 years.
