Review for Exam I

Finite Math

1 March 2017

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What does it mean to amortize a loan?

If you invest \$5,650 in an account paying 8.65% compounded continuously, how much money will be in the account at the end of 10 years?

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A company establishes a sinking fund for plant retooling in 6 years at an estimated cost of \$850,000. How much should be invested semiannually into an account paying 8.76% compounded semiannually?

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If an investor wants to earn an annual interest rate of 6.4% on a 26-week T-bill with a maturity value of \$5,000, how much should the investor pay for the T-bill

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Which is the better investment and why: 9% compounded guarterly or 9.25% compounded annually?

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How long will it take \$4,000 to grow to \$10,000 if it is invested at 6% compounded monthly? 9% compounded monthly?

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A couple has a \$50,000, 10-year mortgage at 9% compounded monthly. What will their monthly payment be?

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A person wants to establish an annuity for retirement purposes. He wants to make quarterly deposits for 20 years so that he can then make quarterly withdrawals of \$5,000 for 10 years. The annuity earns 7.32% interest compounded quarterly.

- (a) How much will have to be in the account at the time he retires?
- (b) How much should be deposited each quarter for 20 years in order to accumulate the required amount?
- (c) What is the total amount of interest earned during the 30-year period?

A couple wishes to have \$40,000 in 6 years for the down payment on a house. If the couple has \$25,000 to invest, what interest rate (a) compounded quarterly, (b) compounded monthly, (c) compounded continuously should the couple look for?

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