1. You invest $2000 in a bank account that has a 5% annual interest rate, compounded continuously. How much will you have in 5 years?
2. You invest $1,500 in a bank account that has a 3% annual interest rate, compounded continuously. How much will you have in 15 years?
3. You invest $10,000 in a CD that has a 9% annual interest rate, compounded continuously. How much will you have in 20 years?
4. You invest $5000 in a bank account that has a 3.5% annual interest rate, compounded continuously. How much will you have in 12 years?
5. You invest $3500 in a bank account that has a 4% annual interest rate. Calculate the amount you will have in 5 years if the interest is compounded:
   a. Annually
   b. Quarterly
   c. Monthly
   d. Daily
   e. Continuously
6. You live near two banks. The first offers an account with an 8% interest rate compounded annually, while the second offers an account with a 7% interest rate, compounded continuously. You have five years to collect interest. Which plan is better? (Choose any amount you want to invest, it won't matter!)
7. You have $10,000 to invest in an account with a 5.25% interest rate for 5 years. How much more will you make if the interest is compounded continuously than if it is compounded annually?