d. Is there any flat fee that would not eventually be surpassed by a yearly percentage rate?

4.	In Bolivia, the population was 10.5 million people in the year 2010 and the country has 1.6% annual growth rate. A) Assuming population grows continuously write a function to model Bolivia's population with respect to t, the number of years after 2010.
	B) Use your model to predict what Bolivia's population will be in the year 2030.
5.	A hospital gives you 120 mg of a drug. This drug has a half-life of 2 hours. Write an equation to represent the amount of drug left in your bloodstream after t hours. Use your equation to find out how much of the drug would remain after 11 hours.
6.	16 mg of Strontium is found in a rock sample. Strontium has a half-life of 14 years. Write an equation to represent the amount of Strontium left in the rock after t years. Then use the equation to find how much will remain after 26 years.
7.	The population of Boston, Massachusetts is growing at a rate of 1.8%. The population in 2013 was approximately 636, 500. What is the predicted population for 2025?
8.	Suppose you have \$12,000 to invest. Which investment yields the greater return over 3 years: 7% compounded monthly or 6.85% compounded continuously?
9.	Suppose you have \$6000 to invest. Which investment yields a greater return over 4 years: 8.25% compounded quarterly or 8.3% compounded semiannually?
10	D. In 1626, Peter Minuit convinced the Wappinger Indians to sell him Manhattan Island for \$24. If the Native Americans had put \$24 into a bank account paying 5% interest, how much would the investment have been worth in the year 2012 if the interest were compounded
	a. Monthly?
	b. Continuously?