1. (J & C 1-25) Cells grow with a doubling time of 20 hr. Assuming exponential growth, calculate the number of cells present after three days, starting with $10^3$ cells.

2. (J & C 1-29) Calculate the value of one dollar compounded monthly at 10% per annum after 1 year. Compare this result with the value obtained when compounding is continuous.

3. (J & C 1-30) What interest rate compounded continuously is required to double your money every 10 years?