1. Your town had a population of 10,000 people 2 years ago. Today it has a population of 12,000. Forecast the population 5 years from now.

(Assume exponential growth at a fixed rate.)

1. A cake fully baked at a temperature of 350. After cooling for 10 minutes in 75 surroundings, its temperature is now 310
   1. What will its temperature be in an hour from now?
   2. How long from now will it take for the cake to cool to 80?

(Assume exponential cooling at a fixed rate.)