

Exponential Growth and Decay

Solve each exponential growth/decay problem.

- 1) For a period of time, an island's population grows at a rate proportional to its population. If the growth rate is 3.8% per year and the current population is 1543, what will the population be 5.2 years from now?
- 2) During the exponential phase, *E. coli* bacteria in a culture increase in number at a rate proportional to the current population. If the growth rate is 1.9% per minute and the current population is 172.0 million, what will the population be 7.2 minutes from now?
- 3) Radioactive isotope Carbon-14 decays at a rate proportional to the amount present. If the decay rate is 12.10% per thousand years and the current mass is 135.2 mg, what will the mass be 2.2 thousand years from now?
- 4) A savings account balance is compounded continuously. If the interest rate is 3.1% per year and the current balance is \$1077.00, in how many years will the balance reach \$1486.73?

1) Using the exponential growth formula, $A = P e^{rt}$, where A is the amount after t years, P is the principal, r is the growth rate, and t is the time in years. In this problem, $P = 1543$, $r = 0.038$, and $t = 5.2$. Substituting these values into the formula, we get $A = 1543 e^{0.038(5.2)}$. Using a calculator, we find that $A \approx 1943.5$. Therefore, the population will be approximately 1943.5 years from now.

2) Using the exponential growth formula, $A = P e^{rt}$, where A is the amount after t minutes, P is the principal, r is the growth rate, and t is the time in minutes. In this problem, $P = 172.0$ million, $r = 0.019$, and $t = 7.2$. Substituting these values into the formula, we get $A = 172.0 e^{0.019(7.2)}$. Using a calculator, we find that $A \approx 194.5$ million. Therefore, the population will be approximately 194.5 million 7.2 minutes from now.

Kuta Exponential Decay

Lingsheng Yao



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