

Exponential Growth and Decay

Date _____ Period _____

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 time t , P is the principal, r is the growth rate, and t is the time. In this problem, $P = 1543$, $r = 0.038$, and $t = 5.2$. Substituting these values into the formula, we get $A = 1543 e^{0.038(5.2)}$. Solving for A , we find that the population will be approximately 1843.5 years from now.

2) Using the exponential growth formula, $A = P e^{rt}$, where A is the amount after time t , P is the principal, r is the growth rate, and t is the time. In this problem, $P = 172.0$ million, $r = 0.019$, and $t = 7.2$. Substituting these values into the formula, we get $A = 172.0 e^{0.019(7.2)}$. Solving for A , we find that the population will be approximately 184.5 million 7.2 minutes from now.

Percent Growth And Decay Precal Work Sheet

Emilie Sanchez



Percent Growth And Decay Precal Work Sheet:

Curriculum Review ,1986 **Paper** ,1968 Exponential and Logarithmic Functions Marilyn Occhiogrosso,2010-09-01
This easy to use packet is full of stimulating activities that will give your students a solid introduction to exponential and logarithmic functions A variety of lessons puzzles mazes and practice problems will challenge students to think creatively as they work to build their precalculus skills Each lesson begins with a clear explanation and provides extra review and reinforcement Pre-Calculus Equations and Answers Expolog, LLC,Ken Yablonski,2018-11 Each step higher in math studies is crucial to doing well at the next level Support for this gateway course to Calculus is needed among most people heading through that gate to successful careers in science engineering computers and economics Our math authors at ExpoLog who also write math textbooks take great care to cover the core of what students need to know to succeed Expertly authored and designed this powerful and amazingly affordable 6 page laminated guide offers clear and concise examples explanations and the graphs that go with them QuickStudy math guides have helped many students push through a difficult course and have helped others shine even brighter Great for exam reviews regular weekly study or reference in class 6 page laminated guide includes Functions Their Graphs Linear Functions Polynomial Functions Quadratic Functions Rational Functions Exponential Functions Logarithmic Functions Inverse Functions Parent Functions Transformations of Functions Trigonometry Right Triangle Trigonometry Degrees Radians Trigonometric Functions the Unit Circle Graphs of Trigonometric Functions Vectors Parametric Equations Polar Coordinates Complex Numbers Conic Sections Introduction to Calculus Limit of a Function Derivatives **Precalc Math Calc Sg E4** John Banks,2001-12 Detailed explanations and worked out practice problems

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