

## 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 rate, and  $t$  is the time. In this problem,  $P = 1543$ ,  $r = 0.038$ , and  $t = 5.2$ . Substitute these values into the formula and solve for  $A$ .

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 rate, and  $t$  is the time. In this problem,  $P = 172.0$ ,  $r = 0.019$ , and  $t = 7.2$ . Substitute these values into the formula and solve for  $A$ .

# Growth And Decay Algebra Kuta

**L Reisser**



## **Growth And Decay Algebra Kuta:**

## Unveiling the Magic of Words: A Report on "**Growth And Decay Algebra Kuta**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Growth And Decay Algebra Kuta**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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