

Use calculus to solve each problem.

Exercise: Exponential Growth and Decay

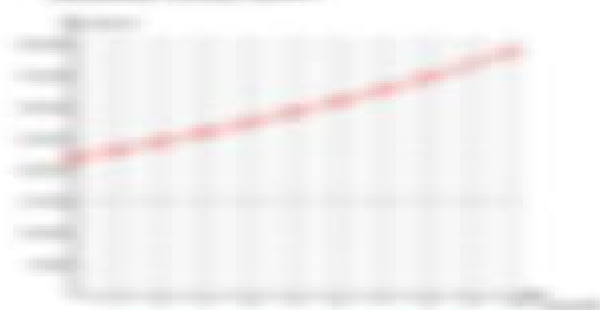
Write each function representing growth or decay. You may use the provided graph to plot points or sketch the exponential function.

1. An exponential function is defined such that $f(0) = 1$ and the function passes through the point $(1, 2)$. Write the function $f(x)$.



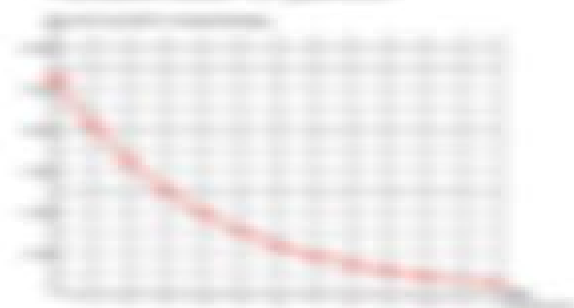
$$f(x) = 2^x$$

2. A bank account starts with an opening deposit of \$1000. The account earns an annual interest rate of 5%, compounded annually. Write the function $A(t)$ representing the amount in the account after t years.



$$A(t) = 1000(1.05)^t$$

3. A radioactive substance has a half-life of 10 years. If the initial amount is 100 grams, write the function $A(t)$ representing the amount of the substance remaining after t years.



$$A(t) = 100(0.5)^{t/10}$$

4. A car's value decreases exponentially over time. If the car's initial value is \$20,000 and it depreciates at a rate of 15% per year, write the function $V(t)$ representing the value of the car after t years.



$$V(t) = 20000(0.85)^t$$

Kuta Software Infinite Algebra 1 Growth And Decay

Rosina Ehmann



Kuta Software Infinite Algebra 1 Growth And Decay:

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