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Exponential growth is proportional to the current value that is growing, so the larger the value is, the faster it grows.

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Exponential growth and exponential decay are two of the most common applications of exponential functions. Systems that exhibit exponential growth follow a model of the form $(y=y_0e^{kt})$. In exponential growth, the rate of growth is proportional to the quantity present. In other words, $(y'=ky)$.

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Exponential Decay Formula: Make a substitution for A and t since it is known that the half-life is 1690 years and : Solve for the decay rate k : Start by dividing both sides by the coefficient to isolate the exponential factor

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In the case of rapid growth, we may choose the exponential growth function: $y = A_0 e^{kt}$ where A_0 is equal to the value at time zero, e is Euler's constant, and k is a positive constant that determines the rate (percentage) of growth.

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