

Exponential Functions

Exponential Function: a function with a variable as the exponent.

The general form for an exponential function is $y = a \times b^x$ a = initial amt b = growth factor

Be able to graph an exponential function by making a table of values and graphing.

- *Remember the graph is a smooth curve
- *Put arrows on both ends
- *One side NEVER touches the x-axis (the y-value never = 0)

x	2×2^x	(2×2^x)
-2	$2 \times 2^{-2} = \frac{2}{2^2} = \frac{1}{2}$	$\left(\frac{1}{2}, \frac{1}{2}\right)$
-1	$2 \times 2^{-1} = \frac{2}{2^1} = 1$	$(-1, 1)$
0	$2 \times 2^0 = 2 \times 1 = 2$	$(0, 2)$
1	$2 \times 2^1 = 2 \times 2 = 4$	$(1, 4)$
2	$2 \times 2^2 = 2 \times 4 = 8$	$(2, 8)$



Given a real-world situation, know how to write a function and use it to answer a question.

Suppose the population of a certain bacteria doubles every 45 minutes. If the population started at 500 bacteria, write a function rule to show the number of bacteria with respect to time. How many bacteria would there be after 3 hours? $f(x) = 500(2)^x$ x = # of 45 min periods so $x = 4$ (45 min $\times 4$ = 3 hrs)

Exponential Growth and Decay

Exponential Growth by Doubling/Tripling, etc. $y = a \times b^x$ for $a > 0$ and $b > 1$

A certain type of bacteria triples its population every 8 hours. The population started at 50 cells.

a.) Define variables and write a fn to model this situation. b.) What will the pop. be after 3 days?

$f(x) = 50(3)^x$ x = # of 8-hr periods $\rightarrow$ there are nine 8-hr periods in 3 days

Exponential Growth by a Percentage $y = a \times (1 + r)^x$ *Change r to a decimal (move 2 L.)

*Use this: Population grows with annual % increase OR investments that only compound annually

Savings Suppose your parents deposited \$1,000 in an account paying 4.5% interest compounded annually (once a year) when you were born. How big is the account balance after 18 years?

Define	$y = a \times b^x$	use an exponential function.
	Let x = the number of interest periods.	
	Let r = the interest	
	Let a = the initial deposit, \$1,000.	
	Find $b = 1 + (4.5\% = 0.045) = 1.045$ or $1.045^2 = 1.092025$	
	$y = 1000 \times 1.092025^x$	
Write	$1,000 \times 1.092025^{18}$	plug a year for 18 years or 18 interest periods. Substitute 18 for x .
	$\approx 4,000.00$	the account balance for the money you

The balance after 18 years will be \$4,000.00.

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**Margaret L. Lial, John Hornsby, Terry
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