

Section 6.3 Exponential Functions

Objectives:

- 1) Evaluate Exponential Functions
- 2) Graph Exponential Functions
- 3) Solve exponential equations
- 4) Compound Interest

Example 1: Review of Laws of Exponents

Laws of Exponents

If $x, t, a,$ and b are real numbers with $a > 0$ and $b > 0$, then

$$\begin{aligned} a^x \cdot a^t &= a^{x+t} & (a^x)^t &= a^{xt} & (ab)^x &= a^x \cdot b^x \\ 1^x &= 1 & a^{-x} &= \frac{1}{a^x} = \left(\frac{1}{a}\right)^x & a^0 &= 1 \end{aligned} \quad (1)$$

RATIONAL EXPONENT RULE

$$a^{\frac{m}{n}} = \sqrt[n]{a^m} = (\sqrt[n]{a})^m$$

a) $-3^2 = -9$

vs

$(-3)^2 = (-3)(-3) = 9$

b) $2^{-3} = \frac{1}{2^3} = \frac{1}{8}$

c) $3 \cdot 4^{\frac{1}{2}} = 3 \cdot \sqrt{4} = 3 \cdot 2 = 6$

d) $-2 \cdot 27^{\frac{2}{3}} = -2 \cdot (\sqrt[3]{27})^2 = -2 \cdot 3^2 = -2 \cdot 9 = -18$

e) $5 \left(\frac{1}{2}\right)^{-3} = 5 \cdot \left(\frac{2}{1}\right)^3 = 5 \cdot 2^3 = 5 \cdot 8 = 40$

f) $5^0 = 1$

An exponential function is a function of the form

$$f(x) = C a^x$$

\uparrow multiplier (growth factor)
 \uparrow initial value (C, C)

where a is a positive real number ($a > 0$), $a \neq 1$, and $C \neq 0$ is a real number. The domain of f is the set of all real numbers. The base a is the **growth factor**, and, because $f(0) = C a^0 = C$, C is called the **initial value**.

Example 2: Identify Linear vs Exponential Data

x	y
-2	-4
-1	-2
0	0
1	2
2	4
3	6

\uparrow +1
 \uparrow +2

slope = $\frac{\Delta y}{\Delta x} \rightarrow \frac{2}{1}$
 $y = 2x$ linear

x	y
-2	$\frac{1}{4}$
-1	$\frac{1}{2}$
0	1
1	2
2	4
3	8

\uparrow +1
 \uparrow $\times 2$

Exponential growth
 $y = 1 \cdot 2^x$

x	y
0	2
1	8
2	32
3	128
4	512

\uparrow +1
 \uparrow $\times 4$

Exponential growth
 $y = 2 \cdot 4^x$

Exponential Functions Answer Key

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