

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

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

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

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

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

f) 5^0
 $= 1$

An exponential function is a function of the form

$$f(x) = Ca^x$$

$\uparrow$ multiplier (growth factor)
 $\uparrow$ initial value (0, 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 $f(0) = Ca^0 = C$, C is called the **initial value**.

Example 2: Identify Linear vs Exponential Data

+1

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

+2

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

+1

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

x2

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

+1

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

x4

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

Exponential Functions Answer Key

**Michelle Rose Gilman, Christopher
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