

## 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

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

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

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  
 $y = 2 \cdot 4^x$

# Au 6 Exponents Exponential Review

**O García**



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