

### Parent Function



domain:  $(-\infty, \infty)$   
 range:  $y > 0$   
 y-intercept:  $(0, 1)$   
 zeros: none  
 asymptote:  $y = 0$   
 increasing:  $(-\infty, \infty)$

### Evaluating Exponential Functions

EXAMPLE: If  $f(x) = 20\left(\frac{1}{5}\right)^x$  find  $f(2)$ .

→ SOLUTION:  $f(2) = 20\left(\frac{1}{5}\right)^2 = 20\left(\frac{1}{25}\right) = 5$

So,  $f(2) = 5$

...which means  $f(x)$  passes through the point  $(2, 5)$ .

### Linear versus Exponential

#### Linear

Look for addition or subtraction of y-values

x	0	1	2	3	4
y	8	5	2	-1	-4

- Has a constant rate of change:

$$\text{Slope} = \frac{y \text{ change}}{x \text{ change}} = \frac{-3}{1} = -3$$

- Has a y-intercept at  $(0, 8)$

- Equation:  $y = mx + b$   
 $m$  = slope and  $b$  = y-intercept  
 $y = -3x + 8$

#### Exponential

Look for multiplication or division of y-values

x	0	1	2	3	4
y	2	6	18	54	162

- Does **NOT** have a constant rate of change

- Has a growth factor of 3
- Has y-intercept at  $(0, 2)$
- Equation:  $y = a(b)^x$   
 $a$  = initial value and  $b$  = growth factor  
 $y = 2(3)^x$

### Average Rate of Change

- NEED 2 POINTS
- The SLOPE of a line that passes through two points of a function
- $\frac{y \text{ change}}{x \text{ change}}$

EXAMPLE: Given the function  $f(x) = 3(2)^x$ , find the average rate of change over the interval  $2 \leq x \leq 4$ .

→ SOLUTION:

x	f(x)
2	12
4	48

$f(2) = 3(2)^2 = 12$   
 $f(4) = 3(2)^4 = 48$   
 a.r.o.c. =  $\frac{36}{2} = 18$

### Laws of Exponents

- Multiplying with the same base: **ADD** powers  
 $x^a \cdot x^b = x^{a+b}$  EXAMPLE:  $5^2 \cdot 5^7 = 5^{10}$
- Dividing with the same base: **SUBTRACT** powers  
 $\frac{x^a}{x^b} = x^{a-b}$  EXAMPLE:  $\frac{5^6}{5^2} = 5^4$
- Power to power: **MULTIPLY** powers  
 $(x^a)^b = x^{a \cdot b}$  EXAMPLE:  $(2^3)^5 = 2^{15}$
- Anything to the **FIRST** power is **ITSELF**  
 $x^1 = x$  EXAMPLE:  $20^1 = 20$
- Anything to the **ZERO** power is **ONE**  
 $x^0 = 1$  EXAMPLE:  $20^0 = 1$
- Negative exponents: re-write as  $\frac{1}{\text{the exponent}}$   
 the positive power (It is not a negative number!!!)  
 $b^{-n} = \frac{1}{b^n}$  EXAMPLE:  $2^{-4} = \frac{1}{2^4} = \frac{1}{16}$

# Exponential Functions Study Guide

**Dennis G. Zill, Patrick D. Shanahan**

A red circular graphic with a gradient, appearing as a partial circle on the right side of the page, overlapping the light blue bar.

## **Exponential Functions Study Guide:**

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Harvard University this comprehensible book prepares readers for the study of calculus presenting families of functions as models for change These materials stress conceptual understanding and multiple ways of representing mathematical ideas

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**Study Guide with Select Solutions and Visual Calculus 1998 Package** Larry J. Goldstein, Goldstein, David C. Lay, David I. Schneider, 1998-10-26 Features detailed explanations and solutions to every sixth exercise in the text Includes helpful hints and strategies for studying in this course In addition Visual Calculus the popular easy to use software for IBM compatible computers is included

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