

### 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:  $(2^3)^2 = 2^6$
- 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  $\frac{1}{\text{the exponent}}$   
 to 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 Pearson

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