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domain range,  
and the  
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## **Functions Lesson 5 1 Exponential Functions**

Here are the  
notes for this  
lesson: Unit 5  
Lesson 1  
exponential  
function pt 1.  
For practice

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please work on  
page 349  
questions 3, 4,  
6 (without  
technology, just  
using your table  
of values), and  
7. I will take  
up your  
questions  
tomorrow.

## **Chapter 5 Lesson 1: Exponential**

*Page 15/48*

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**Function – Pre-  
Calculus 40S**

1. Identify each function as a power function, an exponential function, or neither of these. (It may be translated, stretched, or reflected.)

a.  $f(x) = 2x^2$     b.  $f(x) = 2 \cdot 3^x$

c.  $f(x) = 2x^3$



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1.  $0.5x^3 - 4$  d.  $f(x)$

3.  $1 - x$  e.  $f(x) = 1$

$x - 2$  f.  $f(x) = 2$ .

Rewrite each

expression in

the form  $bx$  in

which  $x$  is a

rational

exponent. a.  $4$  b

b.  $c^3$  c.  $5$  d.  $7$  d.

e.  $3$  d.  $4$  f.  $3$ .

Solve each

equation.

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Lesson 5.1 •

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Functions

Lesson 5.1 •

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(continued) Step

3 To find an  
expression for  
the 8th term,  
look at the

pattern:  $u_0 = 30$

$u_1 = 0.8186$   $u_0$

$0.81861$   $30$   $u_2$

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1 Exponential

0.8186 (0.8186

30) 0.81862 30 u

3 0.8186 u 2

0.8186 0.8186 u

1 0.8186 0.81862

u 0 0.81863 30

Continuing this

pattern, u 8

0.81868 30. Step

4 Using the

pattern in Step

3, u n 0.8186n

30. Note that

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Understand that  
 $\{x^{-m} = \{1 \over r x^m\}\}$  and  
 $\{\{1 \over x^{-m}\} = x^m\}$ .  
Use properties  
of exponents to  
simplify

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1 Exponential  
expressions  
including  
negative and  
zero exponents.

Analyze the  
structure of an  
exponential  
expression and  
determine an  
efficient way to  
write a  
simplified  
equivalent  
expression

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(Standard for  
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Eventually, you  
will entirely

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more cash. yet  
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you require to  
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every needs in  
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Introduction to  
Exponential  
Functions Mini-  
Lesson Page 179  
Graph of a  
generic  
Exponential  
Growth Function



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$$f(x) = ab^x, b >$$

1 • Domain: All  
Real Numbers •

Range:  $f(x) > 0$

• Horizontal

Intercept: None

• Vertical

Intercept:  $(0,$

$a)$  • Horizontal

Asymptote:  $y = 0$

• Left to right

behavior of the

function:

INCREASING

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CHAPTER 5  
Discovering  
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Key Curriculum

Press Step 4 The  
graph of the  
data with

equation  $f(x)$

$30 \cdot 0.8185^x$  is

shown at right.

An equation with  
the same common  
ratio that

passes through

the point  $(1,$

$26)$  is  $f(x) = 26$

$\cdot 0.8185^{x-1}$ .

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**Lesson 5.1 -**

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## Exponential Functions

If  $(b)$  is any number such that

$(b > 0)$  and

$(b \neq 1)$  then

an exponential

function is a

function in the

form,  $[f\left(x\right) =$

$\{b^x\}]$  where

$(b)$  is called

the base and

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$a^x$  can be any real number.

Notice that the  $a^x$  is now in the exponent and the base is a fixed number.

This is exactly the opposite from what we've seen to this ...

**Algebra -**

**Exponential**

*Page 30/48*

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## **Exponential Functions**

Exponential functions are a special category of functions that involve exponents that are variables or functions. Using some of the basic rules of calculus, you can begin by finding the

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derivative of a  
basic functions  
like .This then  
provides a form  
that you can use  
for any  
numerical base  
raised to a  
variable  
exponent.

**How to  
Differentiate  
Exponential**

*Page 32/48*



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**Exponential**

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students into

homogeneous

pairs provides

an opportunity

for

appropriately

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1 Explains this  
lesson's Warm  
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Functions which  
asks students to  
identify what  
each portion of  
an exponential  
function means  
in context.

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170 Graphs of  
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A\* 163 171

Enlargement by  
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o t HA 172

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H A to A\* 165

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Cosine rules H A

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168

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Lesson 5:

Exponential vs.

*Page 36/48*

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Linear Functions

Do Now: Given

the two

functions below,

which would you

say is

exponential?

Explain your

answer. Equation

A Equation B (

) = 2(3)? ( ) = 2 + 3

Linear vs.

Exponential

Equations Linear

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Exponential =? +  
is raised to a  
power of \_\_\_\_\_ =  
is the \_\_\_\_\_

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The exponential



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Exponential Functions  
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function is one of the most important functions in mathematics

(though it would have to admit that the linear function ranks even higher in importance). To form an exponential function, we let

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the independent variable be the exponent .

**The exponential function - Math Insight**

where  $b$  is a positive real number not equal to 1, and the argument  $x$  occurs as an exponent. For

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1 real numbers  $c$   
and  $d$ , a  
function of the  
form  $f(x) = c + d \cdot a^x$  is  
also an  
exponential  
function, since  
it can be  
rewritten as  $f(x) = c + d \cdot a^x = c + d \cdot (a^x)$ . As functions  
of a real  
variable,  
exponential  
functions are

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1. Exponential functions are uniquely characterized by the fact that the growth rate of such a function (that is, its derivative) is directly ...

**Exponential  
function -  
Wikipedia**

$$y = ax \quad (a > 0, a$$

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1) Exponential  
function

Logarithmic  
function  $y = ax$

We replace the  
notation  $x = a y$

$y x = \log a$

Fig.1 Fig.2

Fig.3  $0 x y y x =$   
 $\log a$  Fig.1  $x y$

$y = ax$  Fig.1  $x y$

$0 y = ax$

**Lesson 5**

*Page 45/48*

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Derivatives of  
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Logarithmic  
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