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## **Lesson 5 1 Exponential Functions**

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

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## Chapter 5 Lesson 1: Exponential 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.  $f(x) = 2x$  b.  $f(x) = x^2 + 2x + 3$  c.  $f(x) = 0.5x^3 + 4$  d.  $f(x) = 3 \cdot 1^x$   
e.  $f(x) = 1 \cdot x^2$  f.  $f(x) = 2$
2. Rewrite each

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expression in the form  $bx$  in which  $x$  is a rational exponent. a. 4 b.  $c^3$  c. 5 d. 7 d. e. 3 d 4 f. 3. Solve each equation.

## **Lesson 5.1 • Exponential Functions**

Lesson 5.1 • Exponential Functions

(continued) Step 3 To find an

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## 1 Exponential Functions

expression for the 8th term, look at the pattern:

$u_0$	30	$u_1$	0.8186	$u_0$	0.8186	1	30
$u_2$	0.8186	$u_1$	0.8186	(0.8186	30)		
0.8186	2	30	$u_3$	0.8186	$u_2$	0.8186	
0.8186	$u_1$	0.8186	0.8186	2	$u_0$		
0.8186	3	30	Continuing this pattern,	$u_8$			
0.8186	8	30.	Step 4 Using the pattern				
in Step 3,	$u_n$	$0.8186^n$	30.	Note that			

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## **LESSON 5.1 Exponential Functions - Prek 12**

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

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including negative and zero

exponents. Analyze the structure of an exponential expression and determine an efficient way to write a simplified equivalent expression (Standard for Mathematical Practice 7).

## **Exponents and Exponential**



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## **Functions - Match Fishtank**

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## **Lesson 5 1 Exponential Functions Kendallhunt**

Lesson 5 – Introduction to Exponential  
Functions Mini-Lesson Page 179  
Graph of a generic Exponential  
Growth Function  $f(x) = ab^x$ ,  $b > 1$  •

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## 1 Exponential Functions

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

### **Lesson 5 – Introduction to Exponential Functions**

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Lesson 5.1 † Exponential Functions

(continued) 58 CHAPTER 5

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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

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through the point  $(1, 26)$  is  $f(x) = 26 \cdot 0.8185^x$ .

## **LESSON 5.1 Exponential Functions - Oakland Schools**

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## **Lesson 5.1 - 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  $(x)$  can be any real number. Notice that the  $(x)$  is

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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 Functions**

Exponential functions are a special category of functions that involve

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Exponents that are variables or functions. Using some of the basic rules of calculus, you can begin by finding the derivative of a basic functions like  $a^x$ . This then provides a form that you can use for any numerical base raised to a variable exponent.



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## **How to Differentiate Exponential Functions - wikiHow**

Grouping students into homogeneous pairs provides an opportunity for appropriately differentiated math conversations. The Video Narrative explains this lesson's Warm Up-

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Exponential Functions which asks students to identify what each portion of an exponential function means in context.

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Functions Do Now: Given the two  
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is exponential? Explain your answer.  
Equation A Equation B  $( )=2(3)^?$   $( )=2$   
 $+3$  Linear vs. Exponential Equations

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

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**Unit 5: Exponential ...**

The exponential 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

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exponential function, we let 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



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as an exponent. For real numbers  $c$  and  $d$ , a function of the form  $f(x) = c \cdot a^{dx}$  is also an exponential function, since it can be rewritten as  $f(x) = c \cdot (a^d)^x$ . As functions of a real variable, exponential functions are uniquely characterized by the fact that the growth rate of such a function (that is, its derivative) is

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## **Exponential function - Wikipedia**

$y = ax$  ( $a > 0$ ,  $a \neq 1$ ) Exponential

function Logarithmic function  $y = ax$

We replace the notation  $x = a y y x =$

$\log a$  Fig.1 Fig.2 Fig.3  $O x y y x = \log a$

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

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