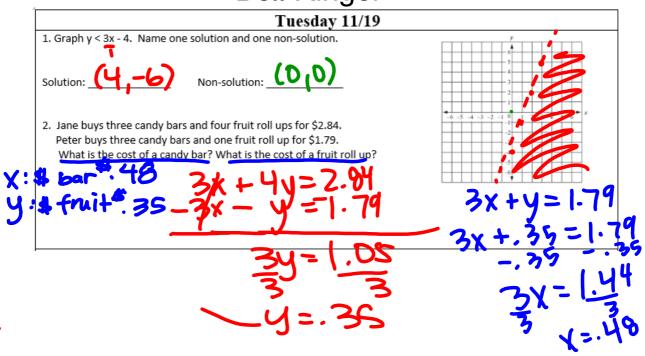
Grab a Week #1 Packet off the front table Bell Ringer



Hand out Disclosures

RHS Secondary Math I Honors Disclosure

Erika Biehn – erika.biehn@ccsdut.org

Course Description - students will cover:

Relationships between quantities Linear and Exponential Relationships

Reasoning and Equations Descriptive Statistics

Congruence, Proof and Constructions Connecting Algebra & Geometry through coordinates

Matrices, Vectors and Logic

More detailed info can be accessed at https://www.schools.utah.gov/file/99ed3612-4b81-4d40-bdb6-92fab69b62a8

Materials - Students need the following materials

- · A notebook or binder with paper
- Pencil and Eraser
- Class Textbook (class set provided available online may check out as needed)
- Calculators will be provided in class, but **CANNOT** be taken home.
 - o Recommended Calculator: TI-84 Plus CE

To use an online graphing calculator visit: https://www.desmos.com/calculator

Grade Breakdown - Weighted categories

- Tests (60%) Tests will be given at the end of each unit. Students are allowed ONE retake per exam. The retake —must be taken before or after school, or during FLEX within one week of the original test day. If you choose to retake a test, the retake score is the score that goes on your grade even if it's worse than the original score.
- Assignments (15%) In-class assignments and homework are meant to help prepare you for quizzes and tests.
 We will have some online homework assignments through: https://www.bigideasmath.com (login with clever use your school google account) Assignments are due two days after being assigned.
- Quizzes (15%) There will be one quiz per chapter. Several quizzes will be given throughout the trimester.
 These are shorter quizzes to help prepare for tests. There are NO RETAKES allowed on the quizzes. Your lowest quiz score will be dropped.
- Final Exam (10%) A comprehensive final will be given at the end of the trimester. We will work hard to prepare as there will NOT be any retakes for the Final Exam.

There is also a Big Ideas Math Videos app can check their answers. (Coming soon - a	with extra exar	nples as well as a Big Idea		
	CI	ut here		
Parent and Student Disclosure Acknowl	edgement			(Turn over)
Student success is a team effort! When st learning, student success is made easier. will provide a framework for this success these class rules and expectations, please	Acknowledgin s. To indicate tl	g and complying with th hat you have read, under	e items outlined stand, and are v	l in this disclosure villing to support
What's the best way to contact you?	Email	Phone Call	Text	
*Any information you would like me to	know about yo	ur child.		

Rules and Expectations - Each student has a right to learn in a safe and productive environment

- Take advantage of all learning opportunities
 Respect and cooperate with teacher and classmates
- Follow all classroom procedures and school policies Maintain and engage in a safe learning environment

Behavior – if a student misbehaves, these steps will be followed:

- Students will fill out an "Oops Slip" when their behavior is affecting themselves and others from learning.
 - o 1-2 slips = recorded warnings
 - o 3 slips = parent contact
 - o 4-5 slips = behavior contract
 - o 6 + slips = meeting with administration to discuss placement

Box o' Distraction

- If an item is inhibiting student learning, it will be confiscated and placed in the "Box o' Distraction."
 Said items may be picked up after school. If you don't want your phone taken away, don't have it out at inappropriate times!!! Distractions include but are not limited to:
 - Phone, ipod/music player, ipad/tablet, other music/electronic devices, headphones, reading book, makeup, food, toys, games etc...
- Mrs. Biehn determines what designates the definition of distracting

Class Resources

Big Ideas online textbook and resources: https://www.bigideasmath.com

Class website: <u>www.biehnmath.weebly.com</u>

Canvas: https://ccsdut.instructure.com/login/ldap

Tutoring is available after school Mon-Thurs 2:45 - 4:15 in room 208

Grading

Α	93 – 100%	В-	80 – 82%	D+	67 – 69%
A-	90 – 92%	C+	77 – 79%	D	63 – 66%
B+	87 – 89%	С	73 – 76%	D-	62 – 60%
В	83 – 86%	C-	70 – 72%	F	Below 60%

Communication

Any questions or concerns, please feel free to visit or contact me by email or phone.

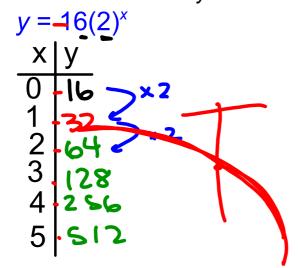
Email: erika.biehn@ccsdut.org Phone: (435) 792-7780 ext 5438

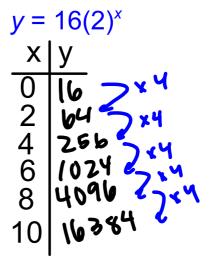
cut here		
STUDENT NAME (printed):	HOUR:	
STUDENT SIGNATURE:		
PARENT/GUARDIAN SIGNATURE:		
DADENT /CHADDIAN EMAIL.		

Essential Question

What are some of the characteristics of the graph of an exponential function?

Copy and complete each table for the exponential function $y = 16(2)^x$. In each table, what do you notice about the values of x? What do you notice about the values of y?





Create a table of values for the exponential function

$$y = 16\left(\frac{1}{2}\right)^{x} \cdot \frac{x}{0} = \frac{x}{0} = \frac{x}{0} \cdot \frac{x}{0} = \frac{x}{0} =$$

$$\left(\frac{1}{2}\right)^{-1} \left(b\left(\frac{2}{1}\right)\right)$$

$$Q^{-b} = \frac{1}{q^{b}}$$

1 -	6.1	Intro	to Ex	ponentia	als.not	tebook
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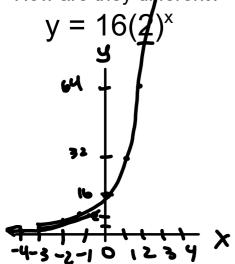
November 19, 2019

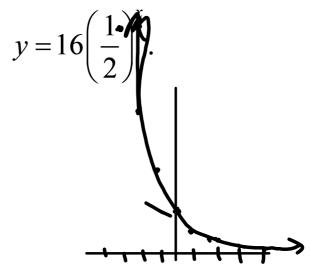
Do you think the statement below is true for *any* exponential function? Justify your answer.

"As the independent variable x changes by a constant amount, the dependent variable y is multiplied by a constant factor."

Sketch the graphs of the functions given. How are the graphs similar?

How are they different?



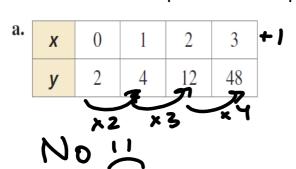


Exponential Functions
$$y = \underline{a}(b)^{x} \quad y = \underline{a} \cdot b^{x}$$

a: y-int

b: common ratio

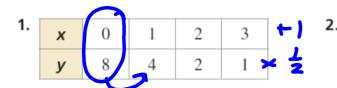
Does each table represent an exponential function? Explain.



b. x 0 1 2 3 y 4 8 16 32 x 2

If so, write the equation of the function

Does the table represent an exponential function? Explain.



 x
 -4
 0
 4
 8

 y
 1
 0
 -1
 -2

If so, write the equation of the function

Evaluate each function for the given value of x.

$$y = -2(5)^{x}$$
; $x = 3$
 $-2(5)^{3}$
 $-2(125)$
 $-2(5)^{3}$

$$y = 3(0.5)^{x}; x = -2$$

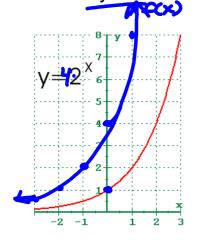
$$3(0.5)^{3} = 12$$

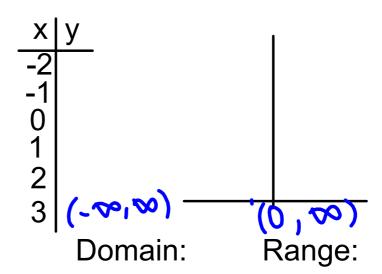
Evaluate the function when x = -2, 0, and 3.

$$y = 2(9)^x$$

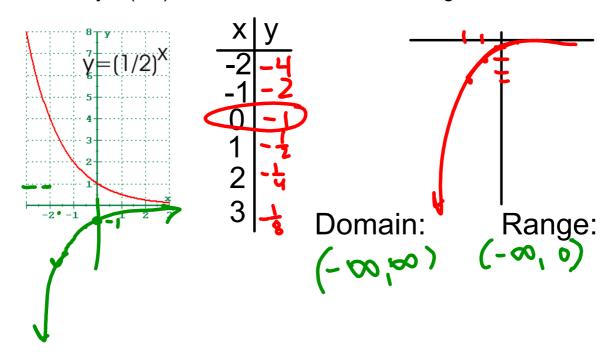
$$y = 1.5(2)^x$$

Graph $f(x) = 4(2)^x$. Compare the graph to the graph of the parent function $y = 2^x$. Describe the domain and range of f.

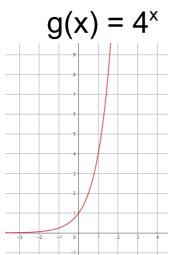


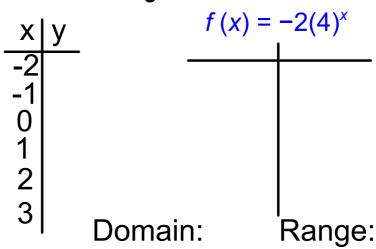


Graph $f(x) = \frac{1}{2} \left(\frac{1}{2}\right)^x$. Compare the graph to the graph of the parent function $y = (1/2)^x$. Describe the domain and range of f.

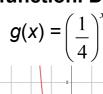


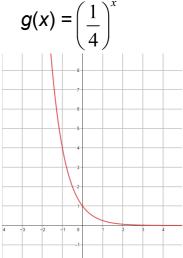
Graph the function. Compare the graph to the graph of the parent function. Describe the domain and range of f.

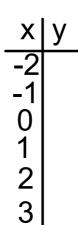


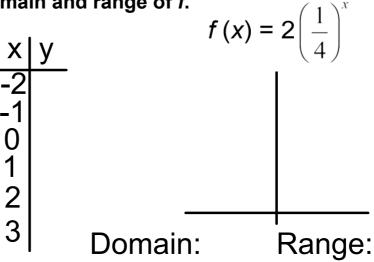


Graph the function. Compare the graph to the graph of the parent function. Describe the domain and range of f.



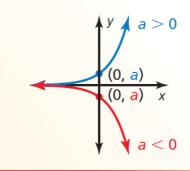


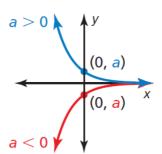




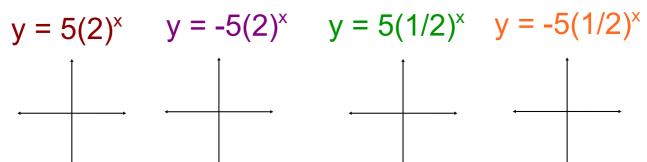
G Core Concept

Graphing $y = ab^x$ When b > 1 Graphing $y = ab^x$ When 0 < b < 1



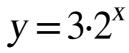


Describe each graph



What about $y = 5(-2)^x$

WHITEBOARDS



X	У
-2	
-1	
0	
1	
2	

			/1	١)	X
y	=	2.	<u> </u>	<u> </u>	

X	У
-2	
-1	
0	
1	
2	

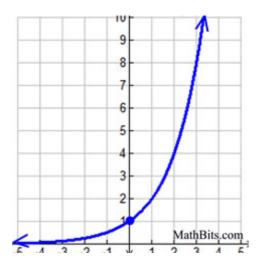
$$y = -2 \cdot (3)^{x}$$

Х	У
-2	
-1	
0	
1	
2	

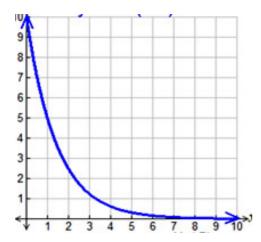
$$y = 4 \cdot 3^x + 1$$

X	У
-2	
-1	
0	
1	
2	

Write the equation of the function shown



Write the equation of the function shown



Write the equation of the function shown

