Alg 1 Honors — Name: _____ Teacher: <u>Register</u> Due: <u>May 1st</u>

<u>Week 5 Online Learning</u>

Week of April 27th covers Algebra Nation Section 7: Topics 3 — 4. Use the Algebra Nation workbook and practice book you already have for Days 1 and 2.

Day 1: Section 7 — Topic 3: Graphs of Exponential Functions — Part 1
    Watch the video on Algebra Nation & Complete Workbook p. 182 — 185
    Complete Practice Book p. 113 — 114 #1 — 7

Day 2: Section 7 — Topic 4: Graphs of Exponential Functions — Part 2
    Watch the video on Algebra Nation & Complete Workbook p. 185 — 187
    Complete Practice Book p. 114 — 115 #1 — 6

Day 3: Graphs of Exponential Functions Practice #1 — 2

Day 4: Graphs of Exponential Functions Practice #3 — 4

Day 5: Quiz covering Section 7 — Topics 3 & 4

*<u>Directions</u>: Show ALL work; box/circle answer(s) unless there is a line for the answer.

    <u>Due</u>: Friday, May 1st by 10pm on Focus

♡ Ms. Register   Website: www.MsRegister.weebly.com

Office Hours: 9:00am — 10:00am   Email: registere@leonschools.net
               1:00pm — 2:00pm

<u>Day 3 – Graphs of Exponential Functions Practice</u>
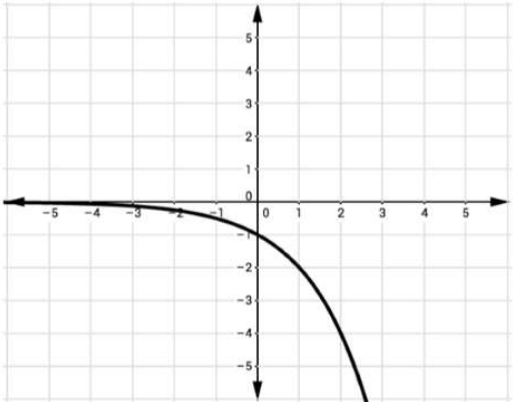
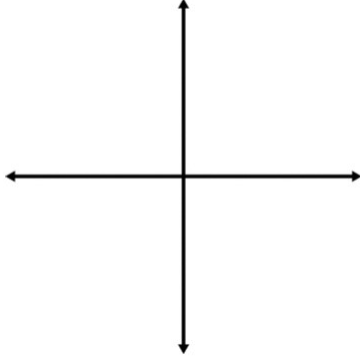**Directions:** The question is in the center column. The tasks are on the left & right of the question.

	QUESTION 1	
Complete the table. Then identify the y-intercept and the coordinate where x = 1.		Describe the end behaviors of the graph. As x increases (x → ∞), y _____. As x decreases (x → ∞), y _____.

x	y

	QUESTION 2	
Find the common ratio and the y-intercept. Then write the exponential equation in standard form. a = _____ b = _____ y = _____		Sketch the graph of the exponential function. As x increases (x → ∞), y _____. As x decreases (x → ∞), y _____.

x	y
-2	$-\dfrac{1}{9}$
-1	$-\dfrac{1}{3}$
0	-1
1	-3
2	-9

Day 4 – Graphs of Exponential Functions Practice

Directions: The question is in the center column. The tasks are on the left & right of the question.

	QUESTION 3	
Find the common ratio and the y-intercept. Then write the exponential equation in standard form. $a =$ _____ $b =$ _____ $y =$ _____		Complete the table. <table><tr><td>**x**</td><td>**y**</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table> Describe the end behaviors.

	QUESTION 4	
Complete the table. Then identify the y-intercept and the coordinate where x = 1.	Consider the following exponential equation. $$y = 16(4^{x+1})$$ this is the same as $$y = 16 \cdot 4^{x+1}$$	Sketch the graph of the exponential function. As x increases (x → ∞), y _____. As x decreases (x → ∞), y _____.

Table for Question 4:

x	y
-2	
-1	
0	
1	
2	
3	