Exponential Functions - Day 1 Assignment

- 1. For the equation $y = 5^x$
 - a. Generate a table

×	У
0	
1	
2	
3	
4	

- b. How does the value of y change as x increases?
- c. Find the value of y when x = 10.

- 3. How are the tables of exponential and linear relationships different?
- 4. How are the graphs of exponential and linear relationships different?
- 5. In the equation $y = 70(2)^{x}$
 - a. What is the growth factor?
 - b. What is the initial amount?

- 2. For the equation y = 5x + 2
 - a. Generate a table

×	у
0	
1	
2	
3	
4	

- b. How does the y value change as x increases?
- c. Find the value of y when x = 10.

6. Use the table below.

×	У
1	15
2	20
3	25
4	30
5	35

- a. Is the equation exponential or linear?
- b. How can you tell?
- c. Write an equation that represents the table.

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7. Use the table below.

×	У
1	1
2	7
3	49
4	343
5	2401

- a. Is the equation exponential or linear?
- b. How can you tell?
- c. Write an equation that represents the table.
- 8. Use the table below.

×	у
0	1
1	3
2	9
3	27
4	81

- a. What is the initial amount?
- b. What is the growth factor?
- c. What is the exponent?
- d. Write an equation that represents the table.

9. Use the table below.

×	У
1	1
2	4
3	16
4	64
5	256

- a. What is the initial amount?
- b. What is the growth factor?
- c. What is the exponent?
- d. Write an equation that represents the table.
- 10. Use the table below.

x	У
0	20
1	40
2	80
3	160
4	320

- a. What is the initial amount?
- b. What is the growth factor?
- c. What is the exponent?
- d. Write an equation that represents the table.

