

Today's Learning Goal(s):

By the end of the class, I will be able to:

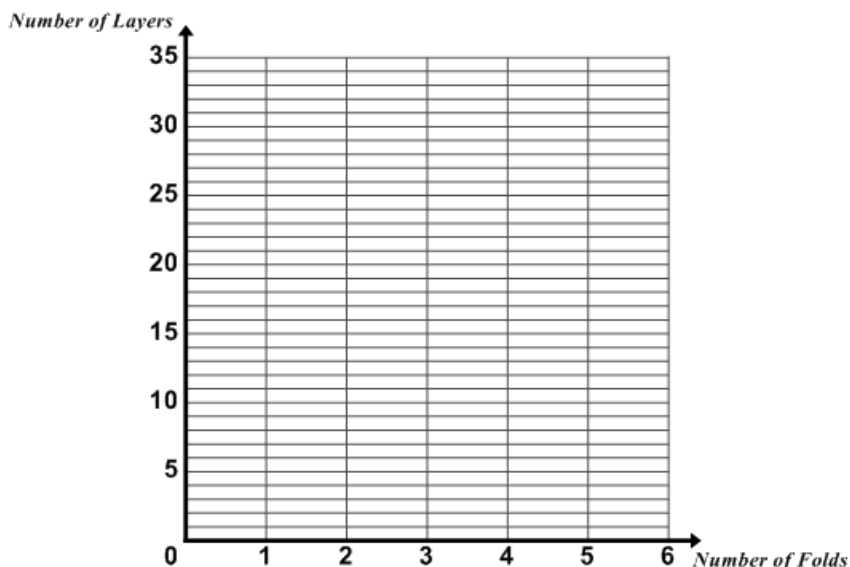
- a) describe the characteristics of the graphs and equations of exponential functions.

4.1 Exploring Growth and Decay

Date: _____

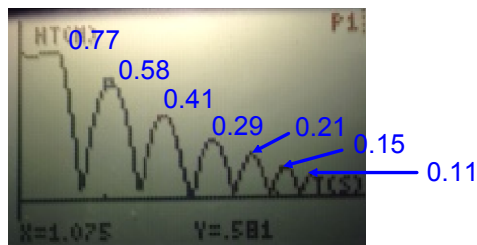
Ex. 1: Take a sheet of paper. Fold it in half. Count the number of layers formed. Fold it in half again and repeat. Complete the table. Draw a graph of the number of layers versus the number of folds.

Number of folds	Number of layers	1st Differences	2nd Differences	y-ratios
0				
1				
2				
3				
4				
5				
n				

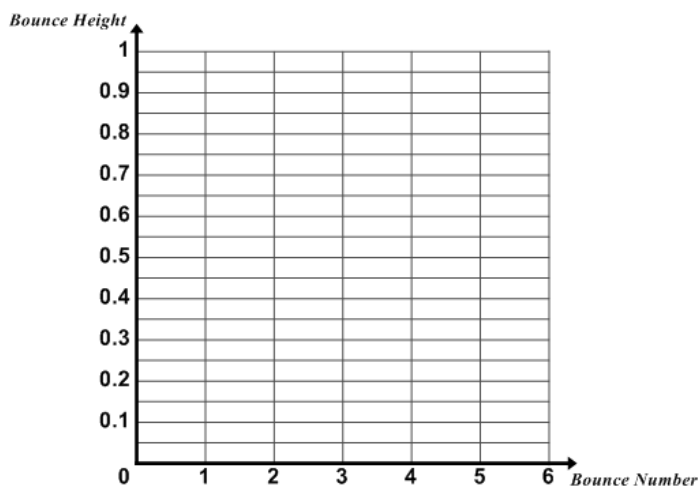


Recall: An exponential function has the variable **in** the exponent.

Ex. 2: Ball Bounce. Let a ball drop. Record the height after each bounce. Graph the height versus the bounce number.



Bounce number	Bounce height
0	0.77
1	0.58
2	0.41
3	0.29
4	0.21
5	0.15
6	0.11



Today's Homework Practice includes: pp. 214-215 A – H
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