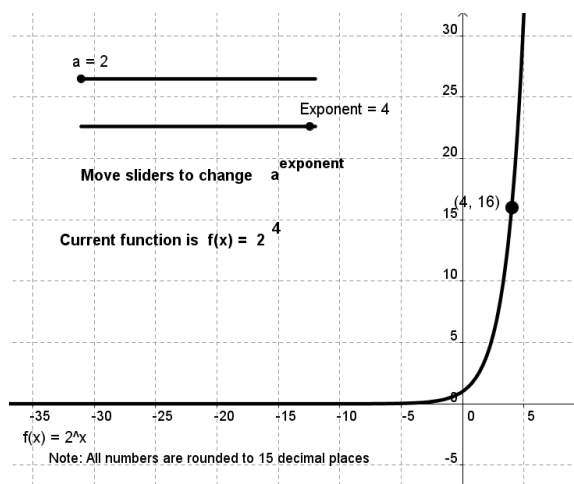


Student Activity: To investigate a^n

Use in connection with the interactive file, 'Exponential Function', on the student's CD.

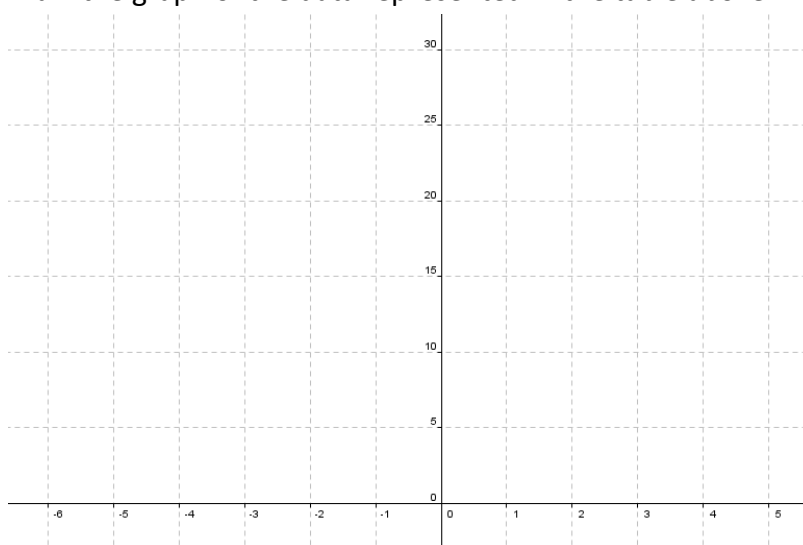


1.

a. Complete the following table:

x	2^x
5	
4	
3	
2	
1	
0	
-1	
-2	
-3	
-4	

b. Draw the graph of the data represented in the table above.



c. This graph is getting closer and closer to the x axis. Will it ever touch it? Explain.

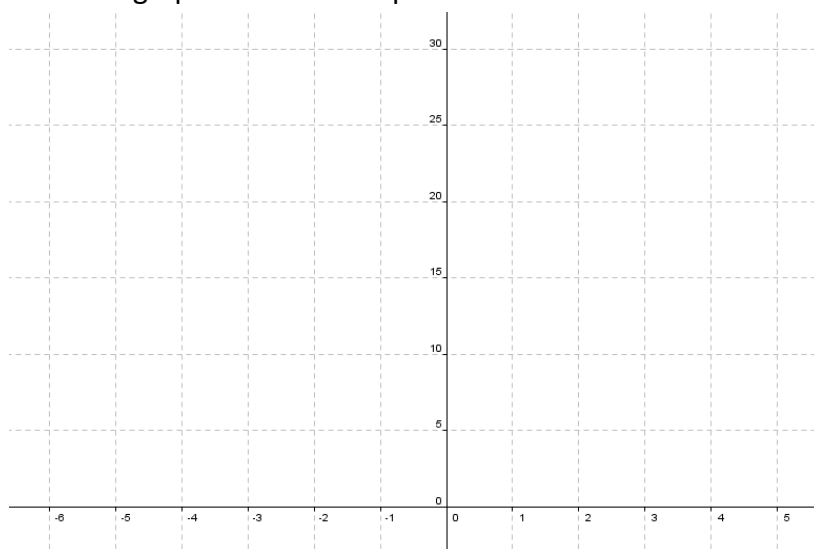
d. Is this an example of a linear, quadratic or exponential function? Explain your reason.

2.

a. Complete the following table:

x	3^x
3	
2	
1	
0	
-1	
-2	
-3	
-4	

b. Draw the graph of the data represented in the table above.



c. What do you notice about the graph for values of x less than one?

d. This graph is getting closer and closer to the x axis. Will it ever touch it? Explain.

e. Is this an example of a linear, quadratic or exponential function? Explain your reason.
