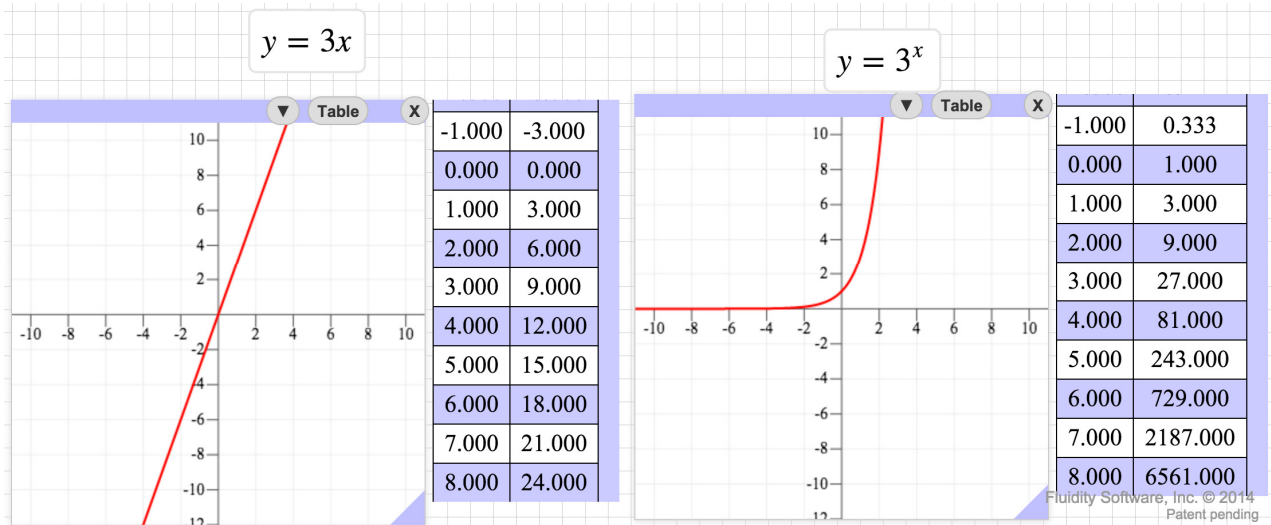


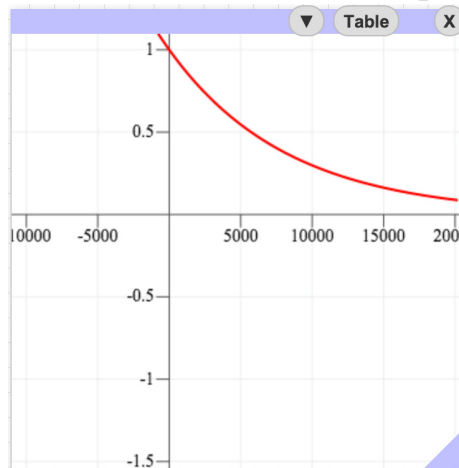
1. The graph on the left is a linear function while the graph on the right is an exponential function. Describe what happens to the y-value of each function as the x-value increases by 1.



For the linear function, as the x-value increases by 1 the y-value _____

For the exponential function, as the x-value increases by 1 the y-value _____

2. The amount of time it takes for half of the radioactive Carbon-14 to decompose is 5730 years, which is called its half-life. When this relationship is graphed it looks like this:



Is this function linear or exponential? Write a statement to support your answer.