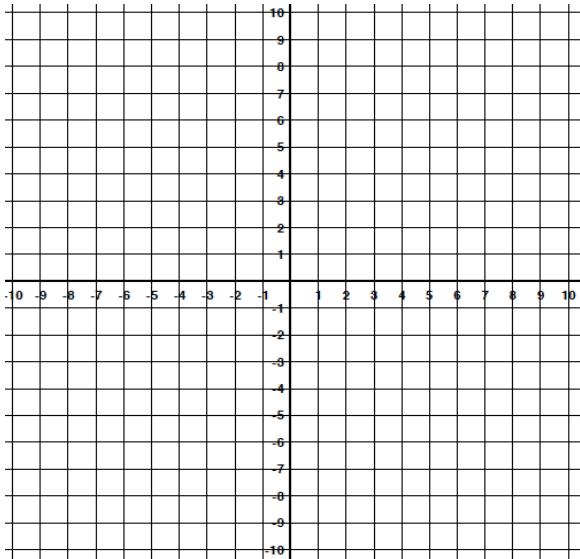

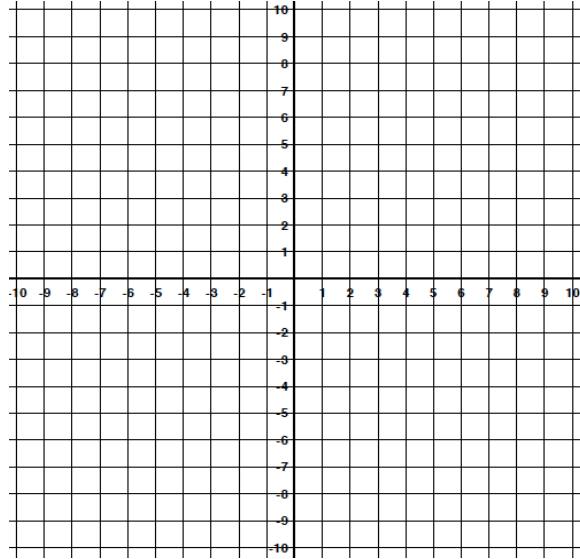


Equation	Graph – Use the values from your table		Equation	Graph – Use the values from your table																																
$y = 3^x$			$y = \left(\frac{1}{3}\right)^x$																																	
Table <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 50%;">X</th> <th style="width: 50%;">Y</th> </tr> </thead> <tbody> <tr><td>-3</td><td></td></tr> <tr><td>-2</td><td></td></tr> <tr><td>-1</td><td></td></tr> <tr><td>0</td><td></td></tr> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> </tbody> </table>	X	Y	-3		-2		-1		0		1		2		3				Table <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 50%;">X</th> <th style="width: 50%;">Y</th> </tr> </thead> <tbody> <tr><td>-3</td><td></td></tr> <tr><td>-2</td><td></td></tr> <tr><td>-1</td><td></td></tr> <tr><td>0</td><td></td></tr> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> </tbody> </table>	X	Y	-3		-2		-1		0		1		2		3		
X	Y																																			
-3																																				
-2																																				
-1																																				
0																																				
1																																				
2																																				
3																																				
X	Y																																			
-3																																				
-2																																				
-1																																				
0																																				
1																																				
2																																				
3																																				

What similarities and differences do you notice between the two graphs? Between the equations?

What is the domain of this function? The range? Can the output of this function ever be negative? How do you know?