

Name _____

Date _____

Year Group _____

Use the graph the answer questions below about the exponential functions

The red exponential function is $f(x) = 2^x$

1. What type of shift happened with the red equation to the orange equation?

Answer = _____

2. What is the equation of the orange exponential function?

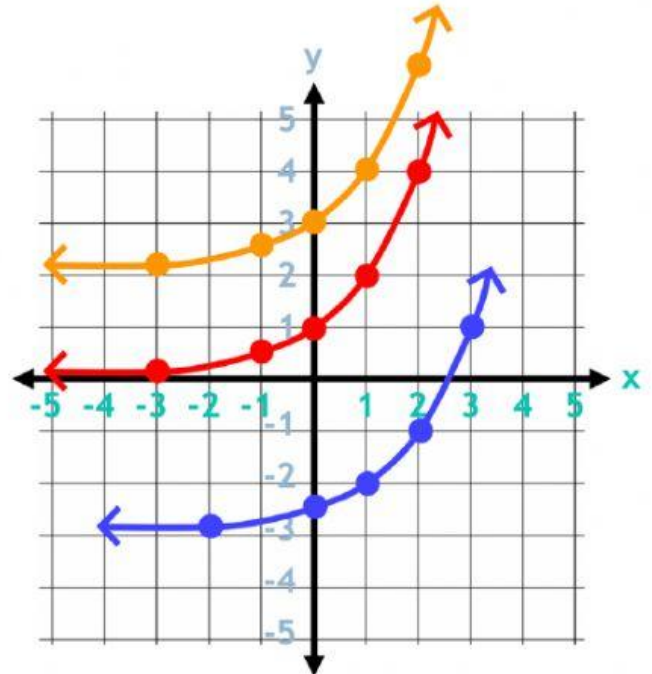
Answer = 2^x _____

3. What type of shift happened with the red equation to the blue equation?

Answer = _____

4. What is the equation of blue exponential function?

Answer = $2^{(x \text{ --- } \text{---})}$ _____



Please drag the numbers to match the description of the exponential functions

5.
 - base 7
 - vertical stretch by a factor of 5
 - horizontal shift 2 to the left
 - vertical shift 3 down

Answer

_____ * $7^{(x \text{ --- } \text{---})}$ _____

5	$\frac{1}{5}$	2	2	3	3
+	+	-	-		

6.
 - base 7
 - vertical shrink by a factor of 5
 - horizontal shift 3 to the right
 - vertical shift 2 up

Answer

_____ * $7^{(x \text{ --- } \text{---})}$ _____