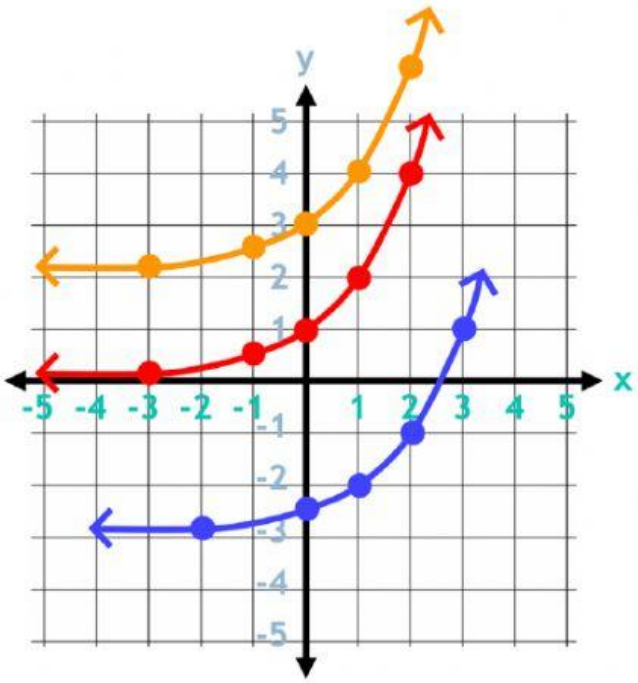
Name _____ Date _____

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 = $2^{(x ___ ____)}$ ___ ____

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

___ * $7^{(x ___ ____)}$ ___ ____

6.

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

Answer

___ * $7^{(x ___ ____)}$ ___ ____

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

+	+	−	−

LIVEWORKSHEETS