Name: _____   Date: _____

Learning Goal 7.1	Applying one or more transformations to an exponential function, including translations, stretches and reflections.

More Questions

1. Draw the graph of $y = 3 \times 2^x$.

   a. How does the graph of $y = 3 \times 2^x$ compare to the graph of $y = 2^x$?
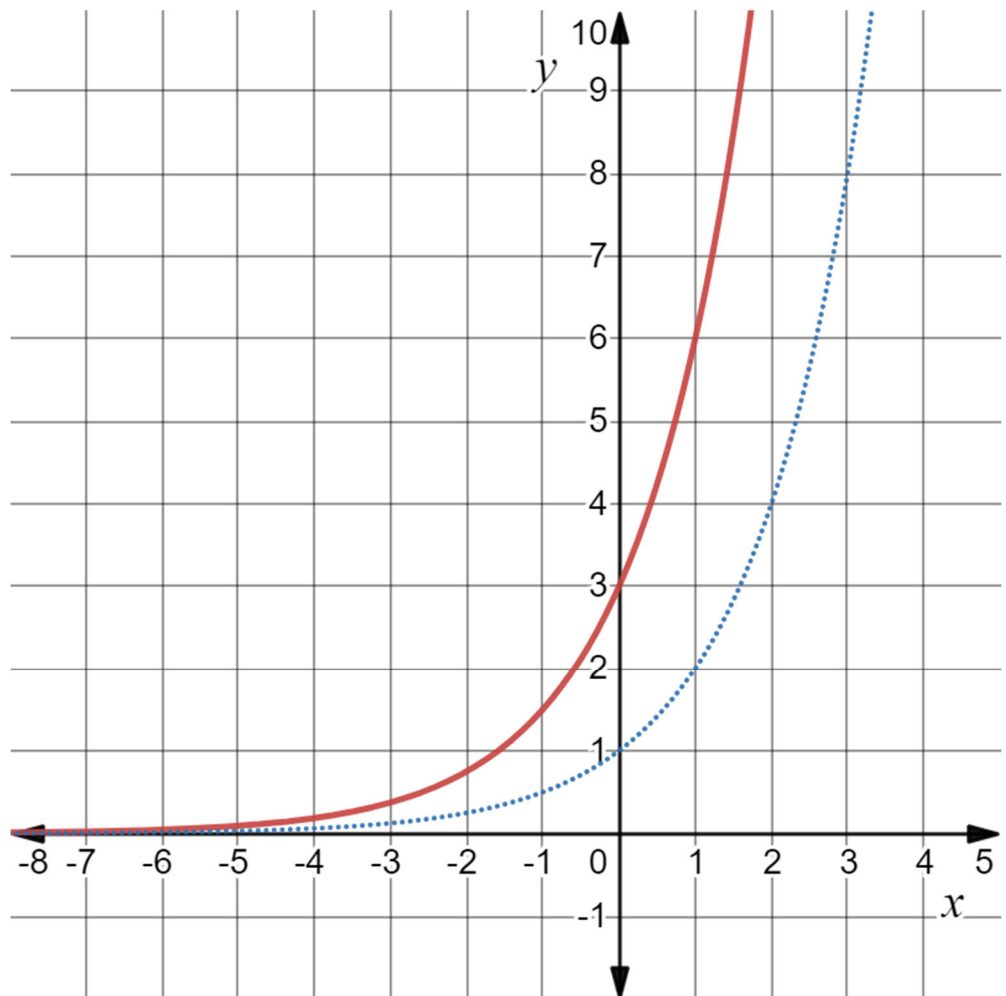
      It grows at a faster rate.

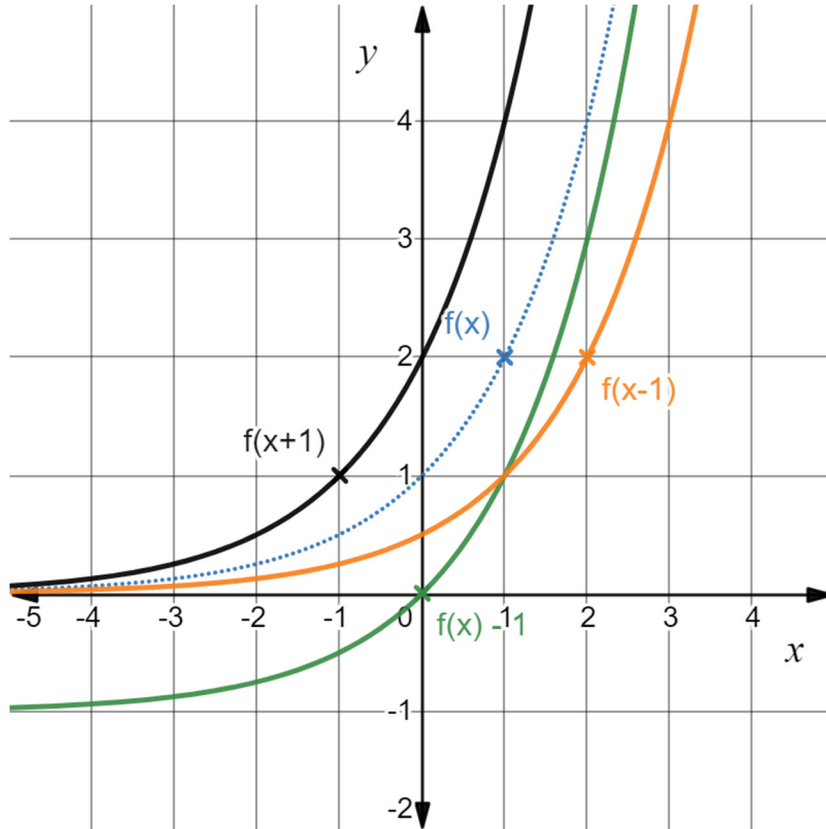   b. What is the $y -$ intercept of the transformed graph?

      $y = 3$

   c. What is the asymptote of the transformed graph?

      $y = 0$

2. Graph the function $f(x) = 2^x$. On the same grid, sketch the graph of each function.
   a. $y = f(x) - 1$
   b. $y = f(x - 1)$
   c. $y = f(x + 1)$

   d. $y = f(0.5x)$
   e. $y = f(2x)$
   f. $y = f(-x)$