

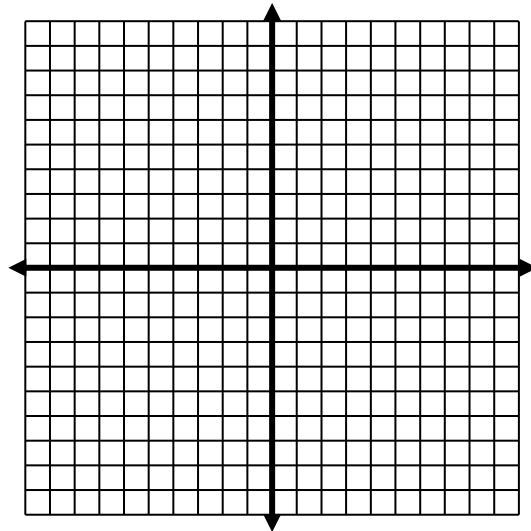
1. Graph the exponential function and its inverse on the grid.

$y = 2^x$ and

$y = \log_2 x$

x	y
-1	
0	
1	
2	
3	

x	y



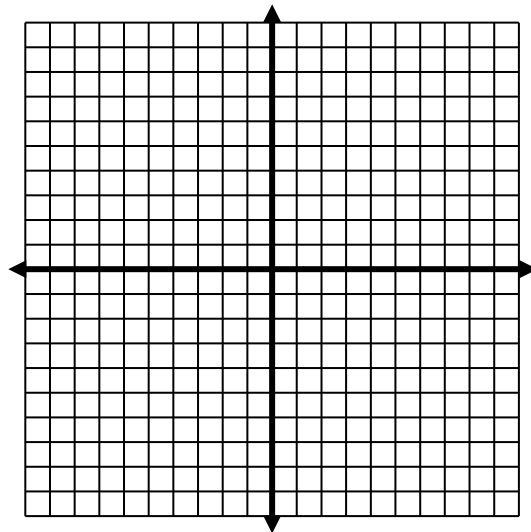
2. Graph the exponential function and its inverse on the grid.

$y = \left(\frac{1}{2}\right)^x$ and

$y = \log_{\frac{1}{2}} x$

x	y

x	y



3. List the characteristic points of $y = \log_{10} x$. _____

Determine the transformations as compared to the base graph, $y = \log_{10} x$. Graph each function on the coordinate planes provided. Determine the domain, range, and asymptotes of each transformation.

4. $y = \log_{10} x - 6$	5. $y = -\log_{10}(x + 2)$	6. $y = \frac{1}{2} \log_{10} x$
Transformations:	Transformations:	Transformations:
Asymptote:	Asymptote:	Asymptote:
Domain:	Domain:	Domain:
Range:	Range:	Range:
