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EXPONENTIAL FUNCTIONS



1. $f(x) = 2^x$	• .					
	x	у				
	-2					
Asymptote:	-1					
Domain:	0					
Danaaa	1					
Range:	2					
What happens to the function (y-values) as the value of x increases?						
$2. f(x) = \left(\frac{1}{2}\right)^x$						
	x	у				
	-2					
Asymptote:	-1					
Domain:	0					
Danaaa	1					
Range:	2					
			-			
What happens to the function (y-values) as the value of x increases?						
In the exponential function $y = b^x$						

If 0 < b < 1, the graph is ______ from left to right.

If **b** > **1**, the graph is ______ from left to right.

Classify each of the following exponential functions as increasing or decreasing, identify domain and range, and identify asymptote.

3. $y = 5^{x}$		4. $y = (0.4)^{x}$			
Increasing/Decreasing		Increasing/Decreasing			
Asymptote:		Asymptote:			
Domain:		Domain:			
Range:		Range:			
5. $y = (0.25)^{x}$		6. $y = (2.5)^x$			
Increasing/Decreasing		Increasing/Decreasing			
Asymptote:		Asymptote:			
Domain:		Domain:			
Range:		Range:			