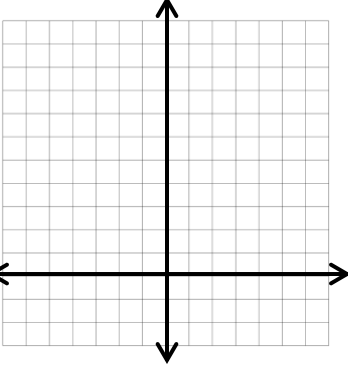
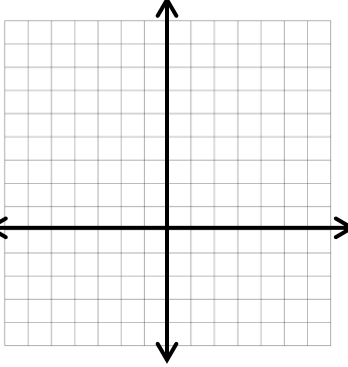
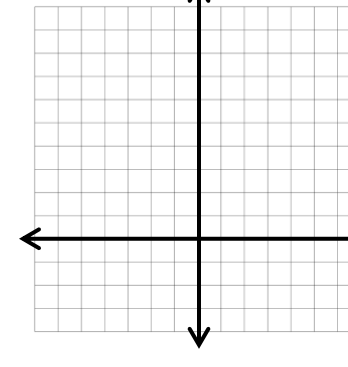
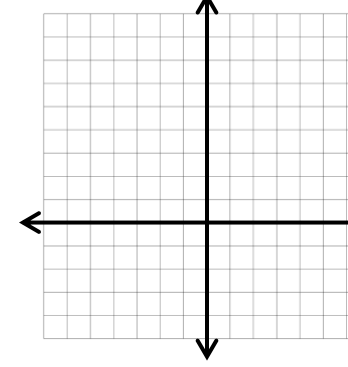


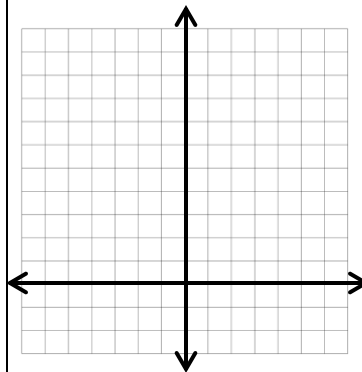
Exponential Transformations

Equation	List the transformations (table, too!!)	Graph												
$y = 2^x$ ←parent graph <table border="1" data-bbox="250 344 396 569"> <thead> <tr> <th>x</th> <th>y</th> </tr> </thead> <tbody> <tr> <td>-2</td> <td></td> </tr> <tr> <td>-1</td> <td></td> </tr> <tr> <td>0</td> <td></td> </tr> <tr> <td>1</td> <td></td> </tr> <tr> <td>2</td> <td></td> </tr> </tbody> </table> asymptote: $y = \underline{\hspace{2cm}}$	x	y	-2		-1		0		1		2			
x	y													
-2														
-1														
0														
1														
2														
$y = 2^x - 3$														
$y = -2^{x+3}$														
$y = 3 \cdot 2^x - 4$														

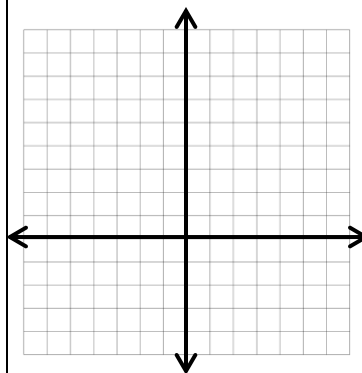
$$y = \left(\frac{1}{3}\right)^x \quad \leftarrow \text{parent graph}$$

x	y
-2	
-1	
0	
1	
2	

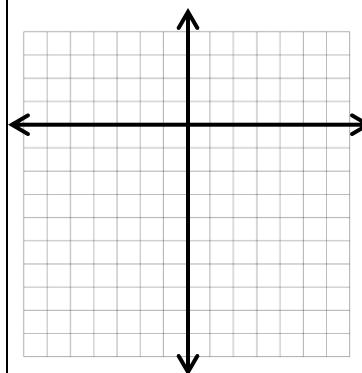
asymptote: $y = \underline{\hspace{2cm}}$



$$y = \left(\frac{1}{3}\right)^x - 4$$



$$y = -\left(\frac{1}{3}\right)^{x-2}$$



$$y = 2\left(\frac{1}{3}\right)^x - 5$$

