

An exponential function is in the form

$$y = a \cdot b^x$$

where $a \neq 0$ and b is greater than 0 and not equal to 1

Examples:

$$y = 3 \cdot 2^x$$

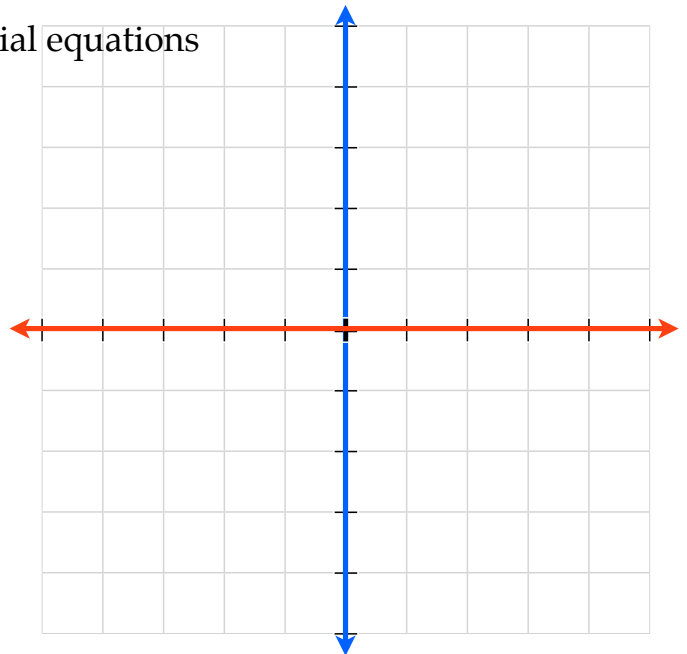
$$y = 0.5 \cdot 2^x$$

$$y = 5 \cdot 0.5^x$$

Create a table to graph the following exponential equations

x	y
-2	
-1	
0	
1	
2	

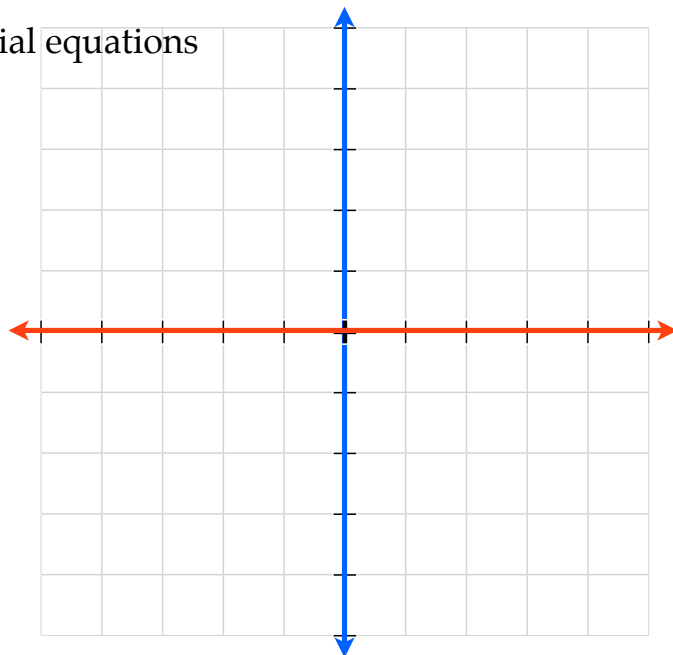
$$y = 1 \cdot 2^x$$



Create a table to graph the following exponential equations

x	y
-2	
-1	
0	
1	
2	

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

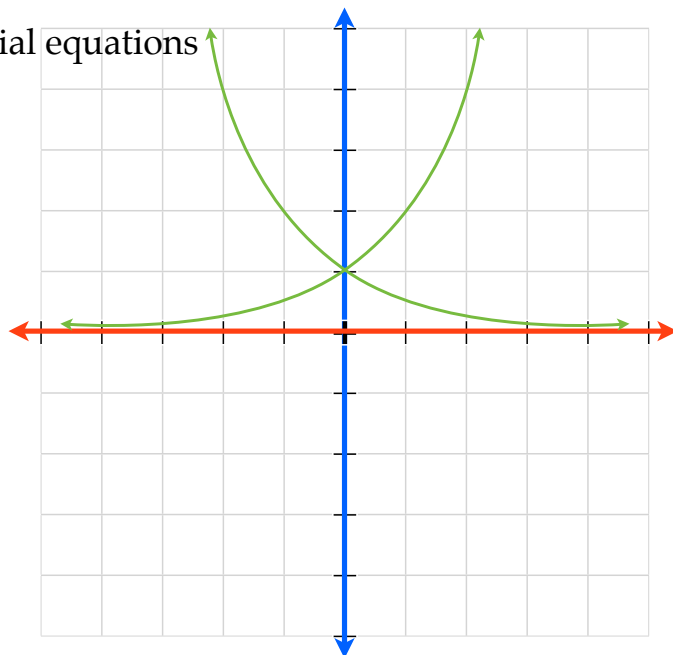


Create a table to graph the following exponential equations

x	y
-2	
-1	
0	
1	
2	

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

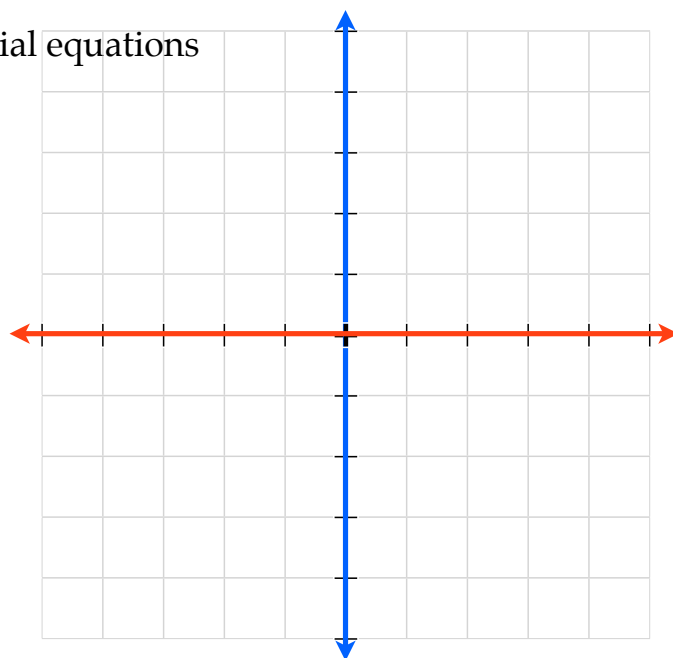
$$y = 1 \cdot 2^x$$



Create a table to graph the following exponential equations

x	y
-2	
-1	
0	
1	
2	

$$y = -1 \cdot 2^x$$

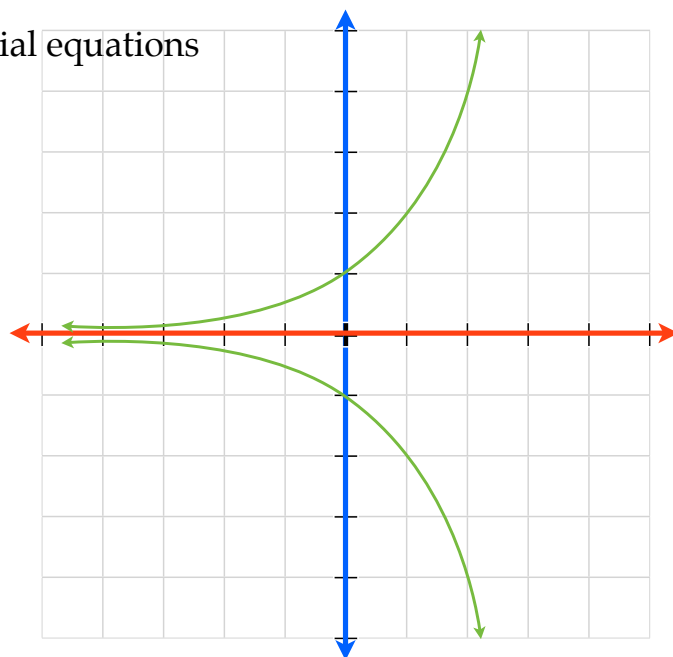


Create a table to graph the following exponential equations

x	y
-2	
-1	
0	
1	
2	

$$y = -1 \cdot 2^x$$

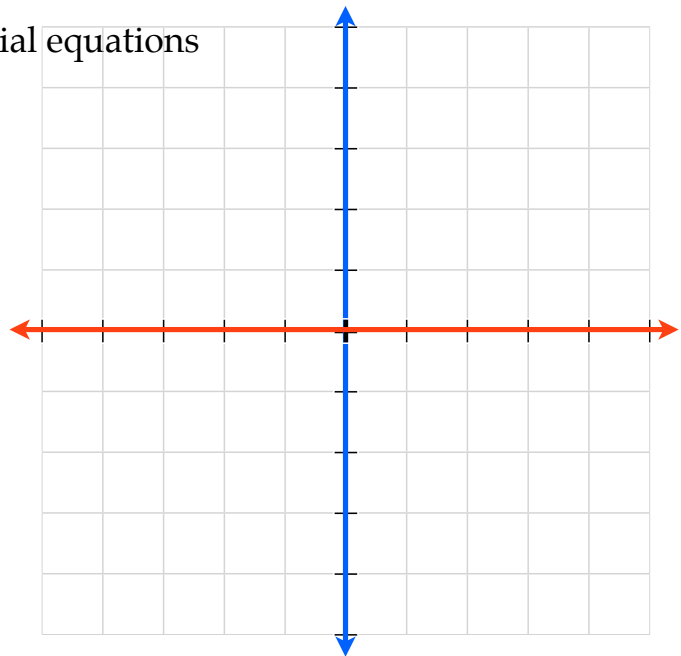
$$y = 1 \cdot 2^x$$



Create a table to graph the following exponential equations

x	y
-2	
-1	
0	
1	
2	

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

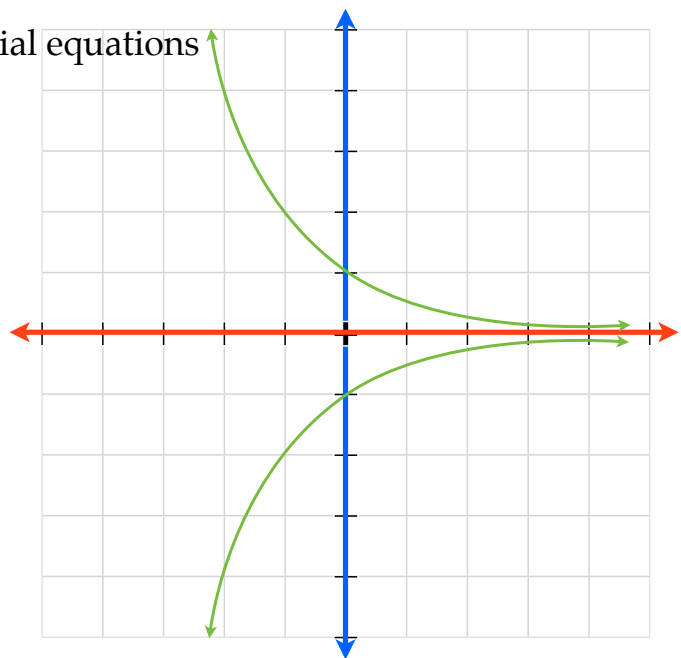


Create a table to graph the following exponential equations

x	y
-2	
-1	
0	
1	
2	

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

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



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

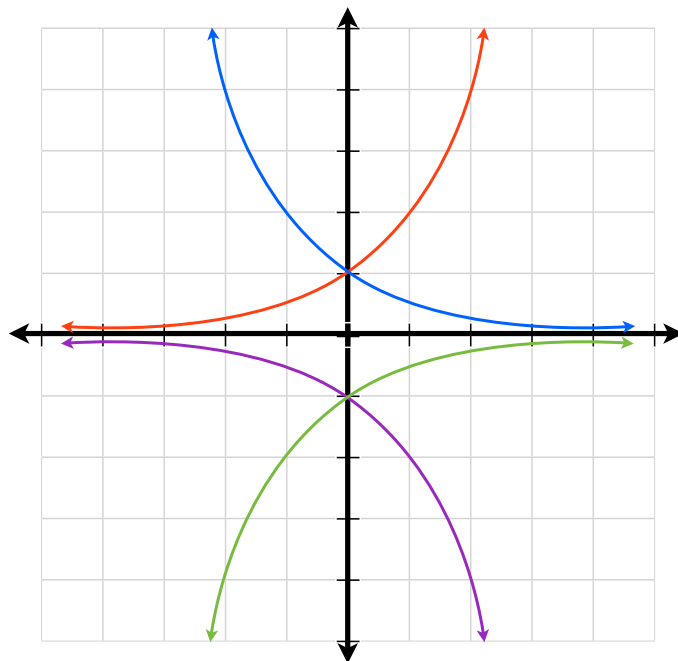
$$a = 1$$

$$b = \frac{1}{2}$$

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

$$a = -1$$

$$b = \frac{1}{2}$$



$$y = 1 \cdot 2^x$$

$$a = 1$$

$$b = 2$$

$$y = -1 \cdot 2^x$$

$$a = -1$$

$$b = 2$$