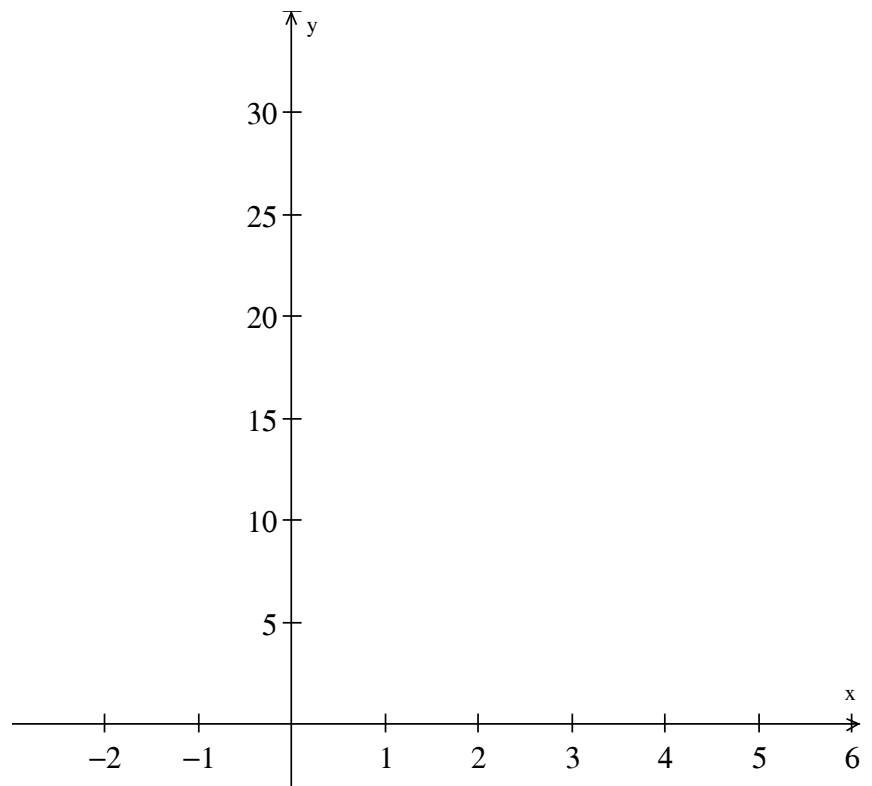


## Exponential and Logarithmic Functions

Plot the given points on the graph to the right

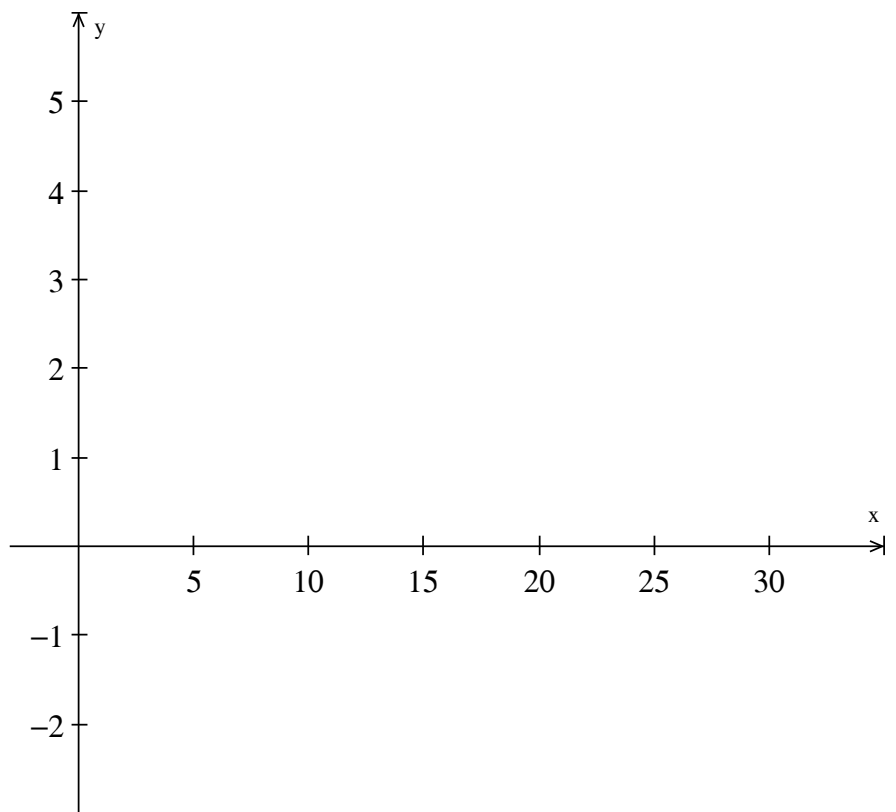
1)

$x$	$y$
-1	$\frac{1}{2}$
0	1
1	2
2	4
3	8
4	16



2)

$x$	$y$
$\frac{1}{2}$	-1
1	0
2	1
4	2
8	3
16	4



- 3) Graph the functions  $y = x^2$  and  $y = \sqrt{x}$  in the same window on your calculator. Then graph the functions  $y = 2^x$  and  $y = \log_2 x$  in the same window.
- 4) Graph  $y = 2^x$  and trace it over the plotted points in #1
- 5) Graph  $y = \log_2 x$  and trace it over the plotted points in #2