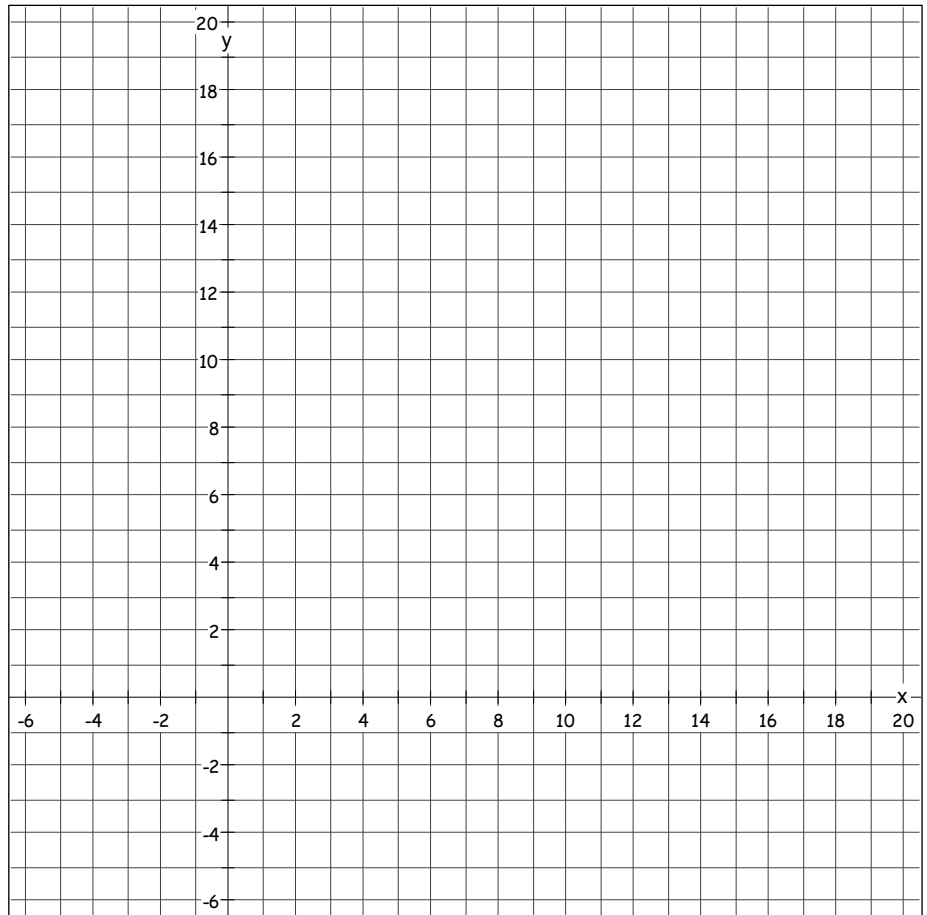


Graphing Logarithmic Functions

1. Using a table of values (no decimals), graph the function $y = 2^x$ on the grid below.

x	$y = 2^x$
4	
3	
2	
1	

x	$y = 2^x$
0	
-1	
-2	
-3	



2. Graph the inverse of $y = 2^x$ on the same grid.

3. For $y = \log_2 x$, state:

a) domain

b) range

c) equation of the asymptote

d) y-intercept

e) x-intercept

f) increasing or decreasing function?

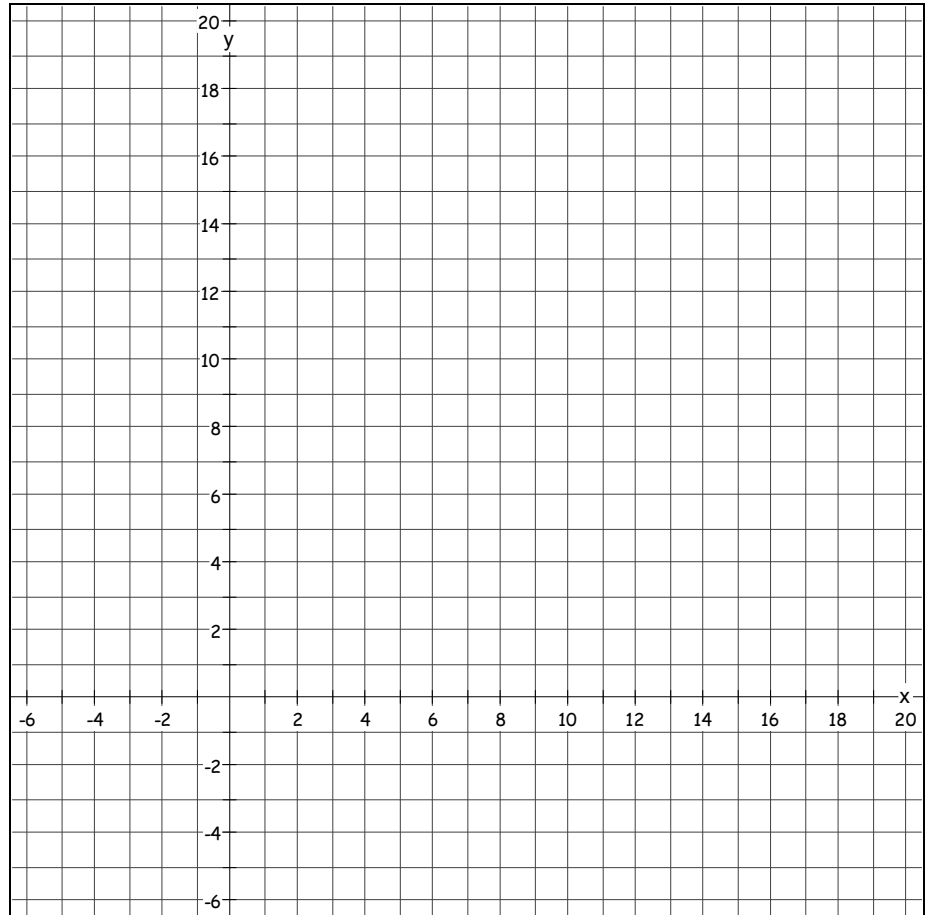
g) end behaviour
as $x \rightarrow +\infty$, $f(x) \rightarrow$ _____

Using a table of values (no decimals), graph the function $y = \left(\frac{1}{2}\right)^x$ on the grid below.

x	$y = \left(\frac{1}{2}\right)^x$
4	
3	
2	
1	

x	$y = \left(\frac{1}{2}\right)^x$
0	
-1	
-2	
-3	

4. Graph the inverse of $y = \left(\frac{1}{2}\right)^x$ on the same grid.



5. For $y = \log_{\frac{1}{2}} x$, state:

a) domain

b) range

c) equation of the asymptote

d) y-intercept

e) x-intercept

f) increasing or decreasing function?

g) end behaviour

as $x \rightarrow +\infty$, $f(x) \rightarrow$ _____