

Fill in the following tables.

1. $y = 2^x$

x	y
-1	0.5
0	1
1	2

2. $y = e^x$

x	y
-1	0.3678
0	1
1	2.7183

3. $y = 10^x$

x	y
-1	0.1
0	1
1	10

4. $y = 6^x$

x	y
-1	0.1667
0	1
1	6

5. $y = \log_2 x$

x	y
0.5	-1
1	0
2	1

6. $y = \ln x$

x	y
0.3678	-1
1	0
2.7183	1

7. $y = \log x$

x	y
0.1	-1
1	0
10	1

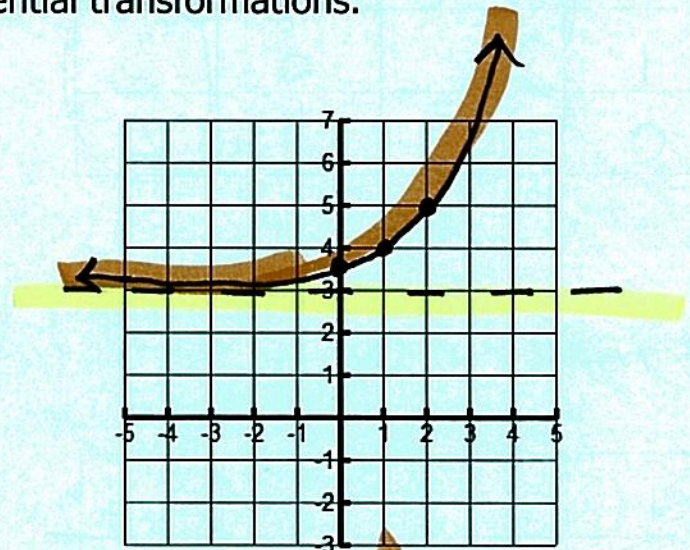
8. $y = \log_6 x$

x	y
0.1667	-1
1	0
6	1

Graph the following logarithmic and exponential transformations.

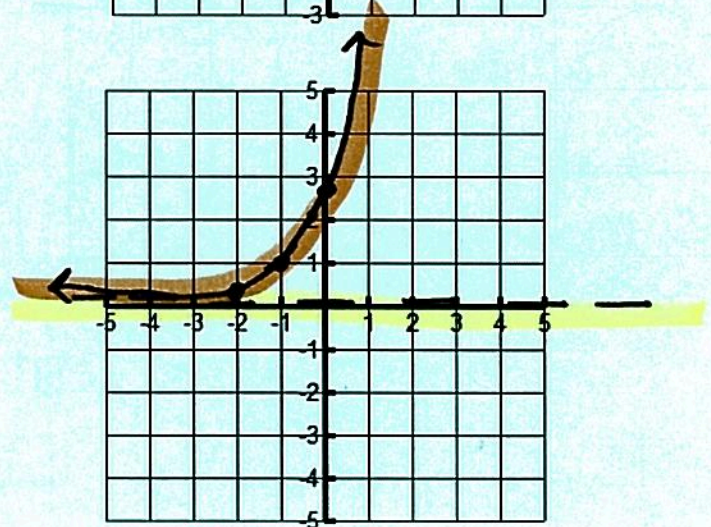
9. $y = 2^{x-1} + 3$
 right 1, up 3
 $y = 2^x$

$x-1$	x	y	$y+3$
0	-1	0.5	3.5
1	0	1	4
2	1	2	5



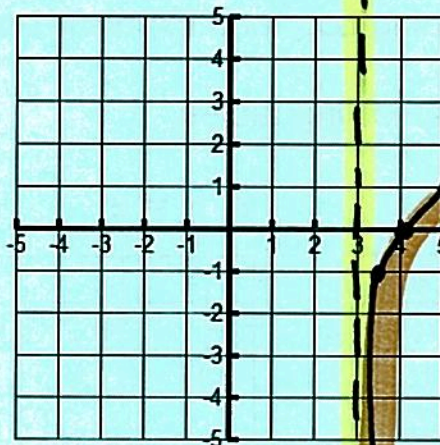
10. $y = e^{x-1} + 1$
 left 1
 $y = e^x$

$x-1$	x	y
-2	-1	0.3678
-1	0	1
0	1	2.7183



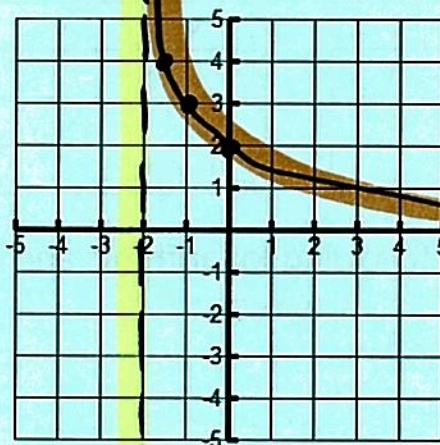
right 3
 11. $y = \log_2(x-3)$
 $y = \log_2(x)$

$X+3$	x	y	
3.5	0.5	-1	}
4	1	0	
5	2	1	



reflect over x-axis, left 2, up 3
 12. $y = -\log_2(x+2) + 3$
 $y = \log_2(x)$

$X-2$	x	y	$-y+3$
-1.5	0.5	-1	4
-1	1	0	3
0	2	1	2



vert. stretch, right 1, up 2
 13. $y = 3\ln(x-1) + 2$
 $y = \ln(x)$

$X+1$	x	y	$3y+2$
1.3678	0.3678	-1	-1
2	1	0	2
3.7813	2.7813	1	5

