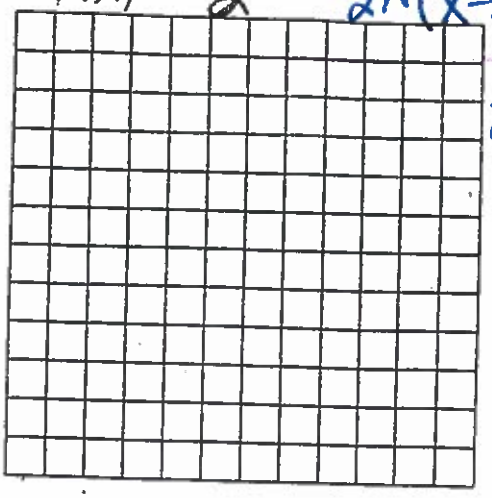
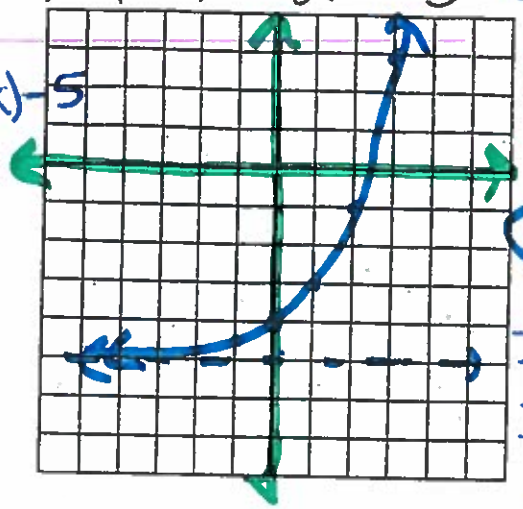
Day 1

Name _____ GRAPHING & Chapter 8

1) $f(x) = 2^{x-5}$ 2^(x-5)



2) $f(x) = 2^x - 5$ down 5



D: (-∞, ∞)

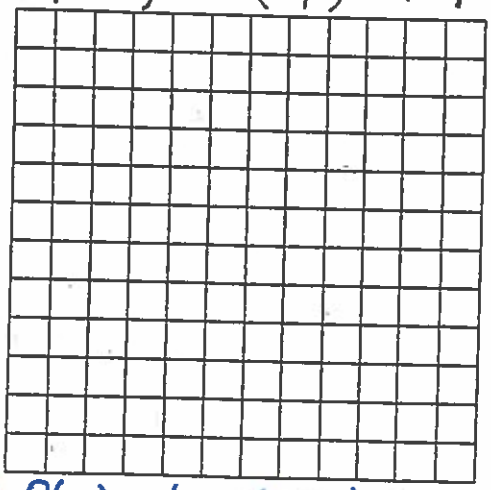
R: (-5, ∞)

Asymptote: y = -5

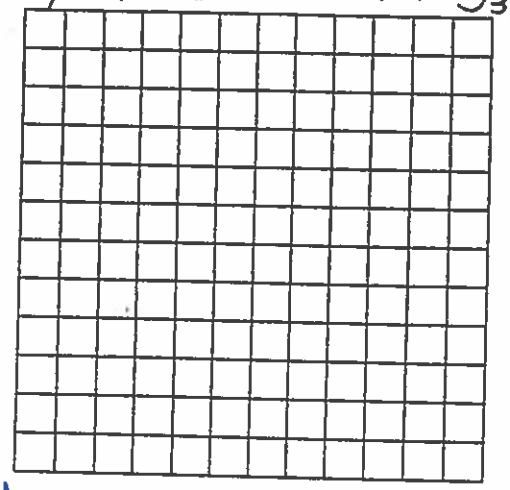
X	
-3	-4.875
-2	-4.75
-1	-4.5
0	-4
1	-3

X	
2	-1
3	3

3) $f(x) = \left(\frac{3}{4}\right)^x + 1$



4) $f(x) = -1 + \log_3 x$

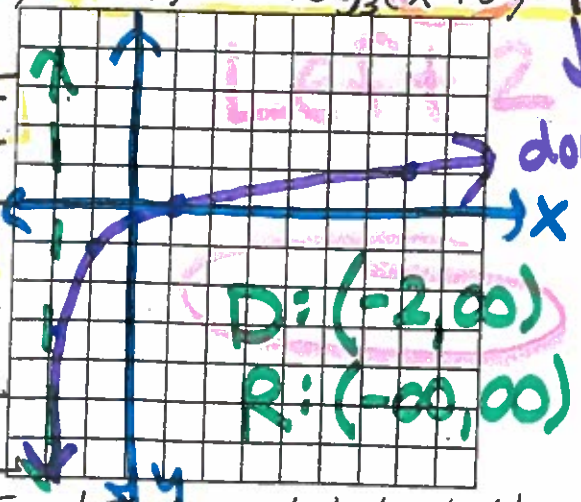


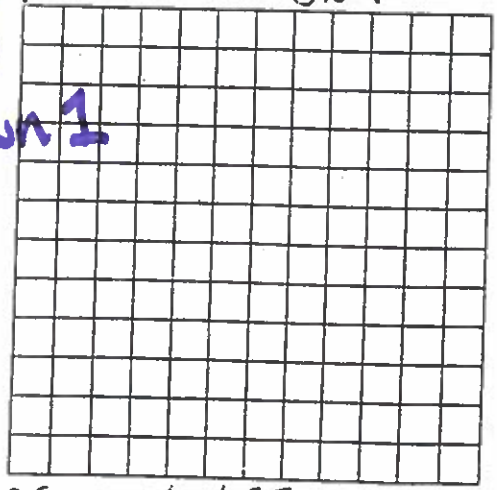
V. Asym: x = -2

$f(x) = \log(x+2) \div \log(3) - 1$

5) $f(x) = \log_3(x+2) - 1$ 6) $f(x) = \log_{10}(x-2)$

X	
-2	error
-1.9	-3.1
-1	-1
0	-.369
1	0
7	1



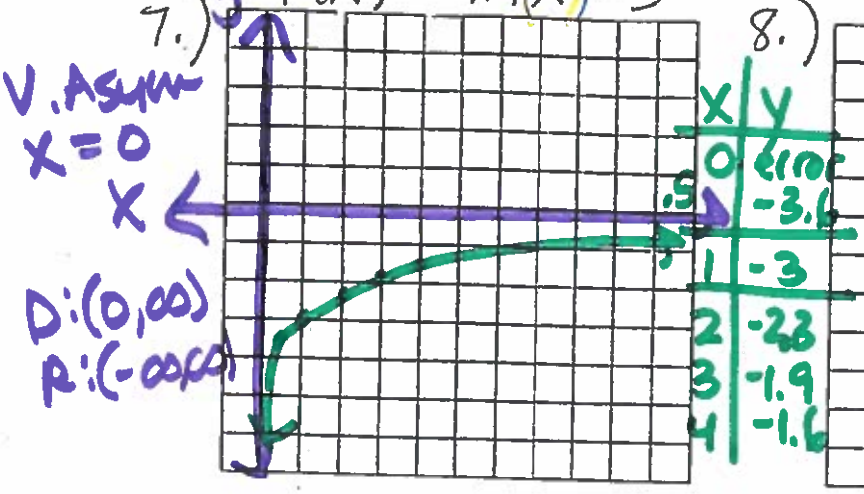


For each graph { draw and label the asymptotes. SHOW TABLES draw the x and y axes and label

$y = \ln(x-3)$ Day 12

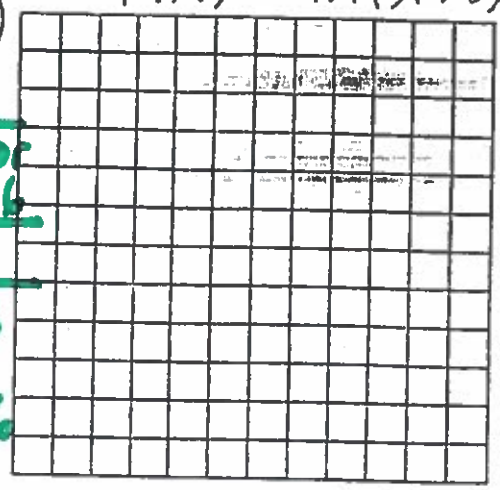
Name shifts: down 3 GRAPHING – Chapter 8

7.) $f(x) = \ln(x) - 3$

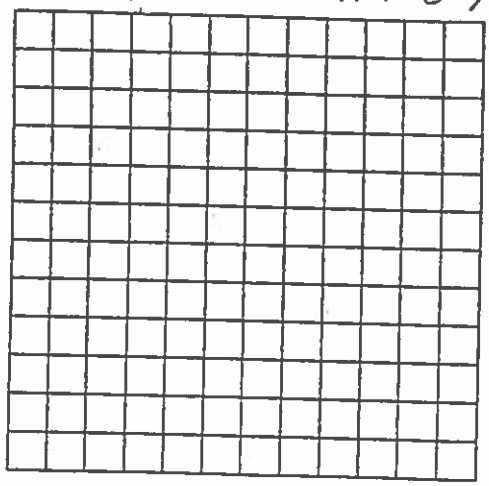


x	y
0	error
.5	-3.6
1	-3
2	-2.3
3	-1.9
4	-1.6

8.) $f(x) = \ln(x+2) - 1$

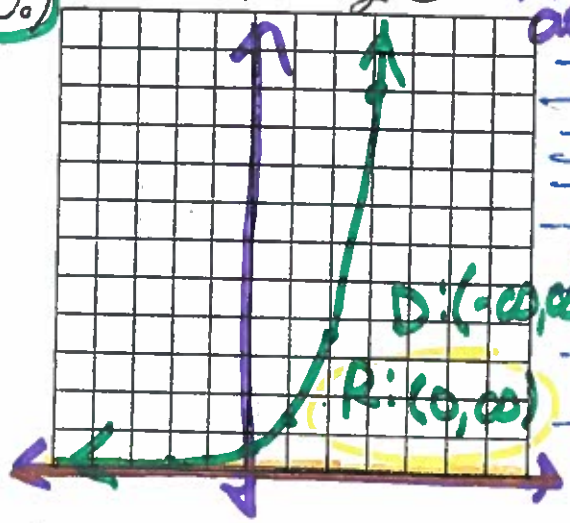


9.) $f(x) = -\ln(x-2)$



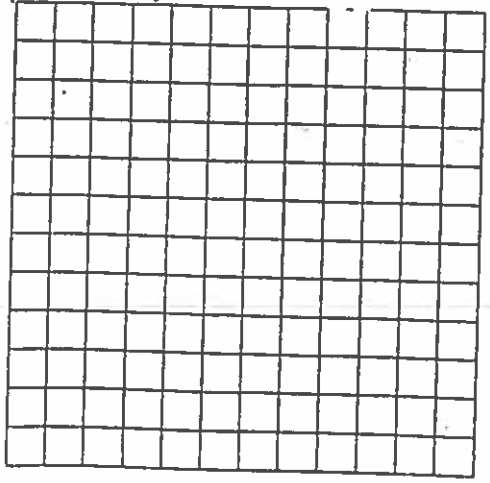
10.) $f(x) = \frac{1}{2}e^x$

No shifts
Horizontal asym. y=0



-3	.02
-2	.07
-1	.18
0	.5
1	1.4
2	3.7
3	10.0

11.) $f(x) = e^{-x}$



12.) $f(x) = -e^{2x} + 3$