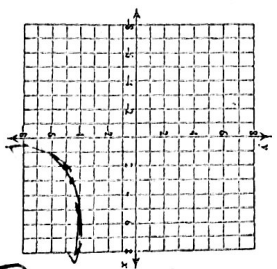


Don't have a log of a negative number

Identify the domain and range of each. Then sketch the graph.

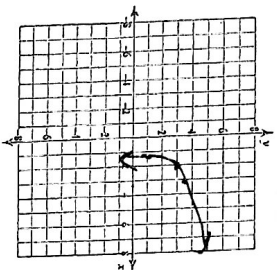
1) $y = \log_6(x-1) - 5$



X	Y
-2	Error
-1	Error
0	Error
1	-5
2	-4.61
3	-4.43
4	-4.3
5	-4.12

D: $(1, \infty)$
R: $(-\infty, \infty)$

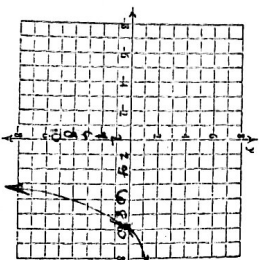
2) $y = \log_5(x-1) + 3$



X	Y
0	Error
1	Error
2	3
3	3.43

D: $(1, \infty)$
R: $(-\infty, \infty)$

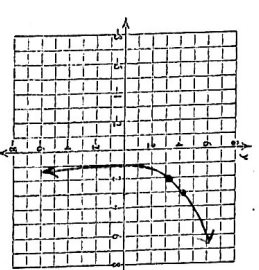
3) $y = \log_6(x-3) - 5$



X	Y
8	Error
9	0
10	0.387
11	0.613
12	0.773

D: $(3, \infty)$
R: $(-\infty, \infty)$

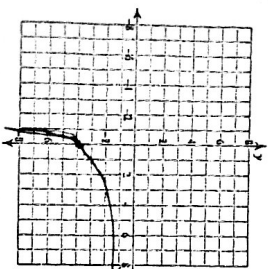
4) $y = \log_2(x-1) + 3$



X	Y
1	Error
2	3
3	4
4	4.59

D: $(1, \infty)$
R: $(-\infty, \infty)$

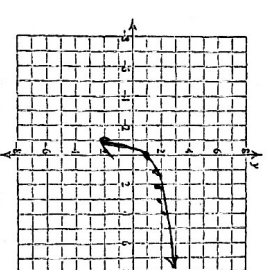
5) $y = \log_4(x+1) - 4$



X	Y
-1	Error
0	-4
1	-3.51
2	-3.21
3	-3

D: $(-1, \infty)$
R: $(-\infty, \infty)$

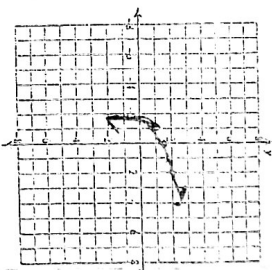
6) $y = \log_5(x+1) + 1$



X	Y
0	1
1	1.43
2	1.68
3	1.86
4	2

D: $(-1, \infty)$
R: $(-\infty, \infty)$

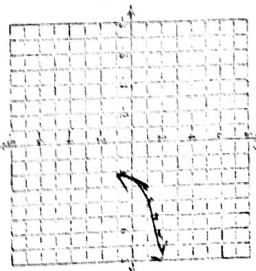
7) $y = \log_4(x+2) + 1$



X	Y
-1	1
0	1.5
1	1.79
2	2

D: $(-2, \infty)$
R: $(-\infty, \infty)$

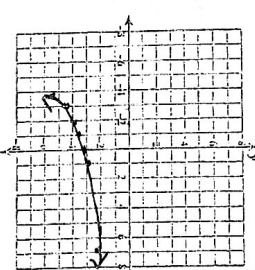
8) $y = \log_6(x-2) + 1$



X	Y
3	1
4	1.39
5	1.61
6	1.77
7	1.89

D: $(2, \infty)$
R: $(-\infty, \infty)$

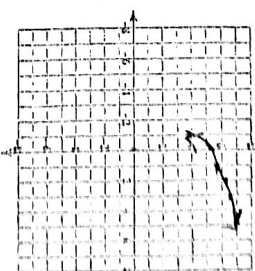
9) $y = \log_4(3x+11) - 5$



X	Y
-3	-4.5
-2	-3.84
-1	-3.5
0	-3.2
1	-3.0
2	-2.5

D: $(-\frac{11}{3}, \infty)$
R: $(-\infty, \infty)$

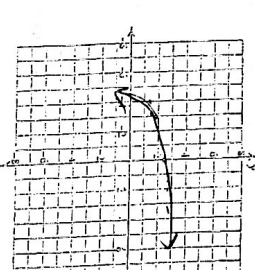
10) $y = \log_5(2x+3) + 5$



X	Y
0	5.43
1	5.66
2	6.11
3	6.29

D: $(-1.5, \infty)$
R: $(-\infty, \infty)$

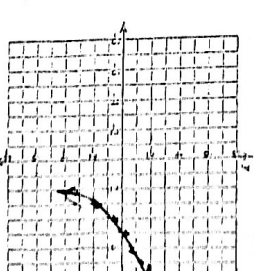
11) $y = \log_6(3x+14) + 1$



X	Y
-4	1.39
-3	1.89
0	2.4
3	2.75

D: $(-\frac{14}{3}, \infty)$
R: $(-\infty, \infty)$

12) $y = \log_2(4x-11) - 2$



X	Y
3	-2
4	0.32
5	1.17
6	1.70
7	2.09

D: $(\frac{11}{4}, \infty)$
R: $(-\infty, \infty)$