GRAPHING LOGARITHMIC FUNCTIONS

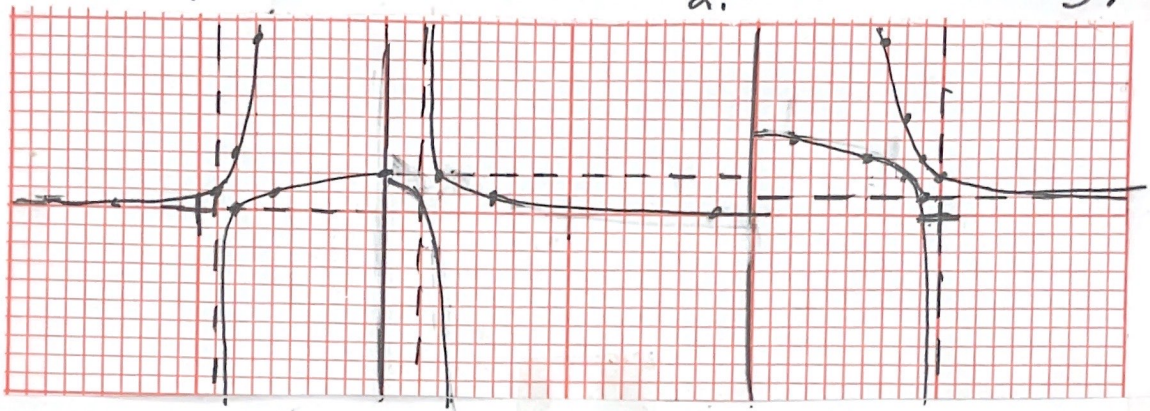
Sketch each pair of exponential & logarithmic functions on the same graph using different colors. Show the T-table for both graphs. Asymptotes must be shown.

1. $y = 3^{x-1}$
   $y = \log_3(x-1)$

2. $y = -4^{x+8} + 2$
   $y = -\log_4(x+8) + 2$

3. $y = 2^{-x} + 1$
   $y = \log_2(-x)+1$

1. 2. 3.



0	1
1	3
2	9

0	-1
1	-4
2	-16

0	1
-1	2
-2	4
-3	8

1	0
3	1
9	2

1	0
4	-1
16	-2

-1	0
-2	1
-4	2
-8	3