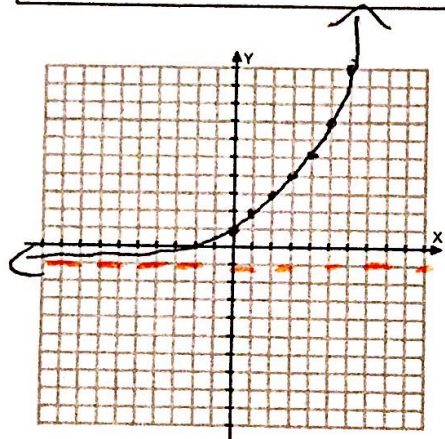


5.  $f(x) = 2\left(\frac{3}{4}\right)^{-x} - 1$  *asymptote*  $b < 1$  Growth or Decay?

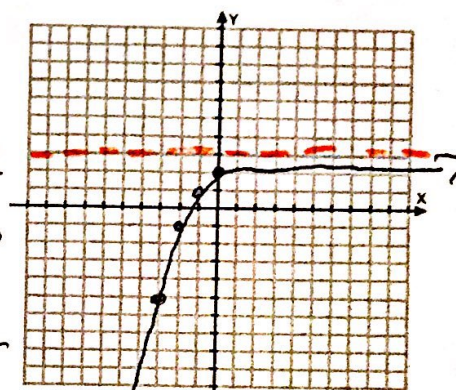
Yint: 1 Asymp:  $y = -1$   
 D:  $(-\infty, \infty)$  R:  $(-1, \infty)$   
 EB:  $x \xrightarrow{R} +\infty, f(x) \rightarrow \infty$   
 $x \xrightarrow{L} -\infty, f(x) \rightarrow -1$



x	y
0	1
1	1.6 ≈ 2
2	2.5 ≈ 3
3	3.7 ≈ 4
4	5.3 ≈ 5
5	7.4 ≈ 7
6	10.2 ≈ 10

6.  $f(x) = -\left(\frac{1}{2}\right)^x + 3$   $b < 1$  Growth or Decay?

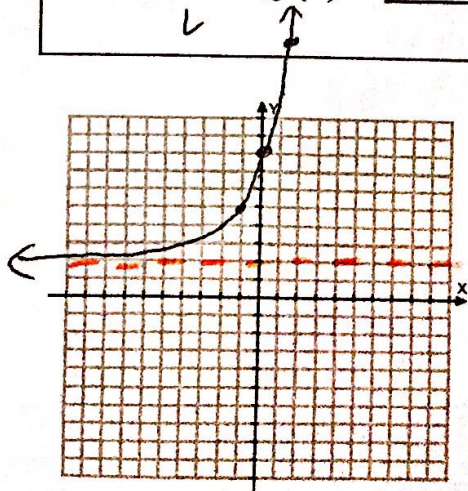
Yint: 2 Asymp:  $y = 3$   
 D:  $(-\infty, \infty)$  R:  $(-\infty, 3)$   
 EB:  $x \xrightarrow{R} +\infty, f(x) \rightarrow 3$   
 $x \xrightarrow{L} -\infty, f(x) \rightarrow -\infty$



x	y
-4	-13
-3	-5
-2	-1
-1	1
0	2

7.  $y = 3 \cdot 2^{x+1} + 2$  *asymptote*  $b > 1$  Growth or Decay?

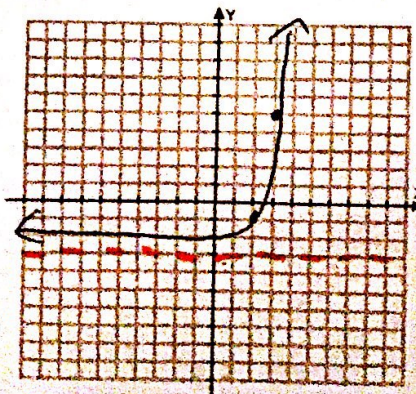
Yint: 8 Asymp:  $y = 2$   
 D:  $(-\infty, \infty)$  R:  $(2, \infty)$   
 EB:  $x \xrightarrow{R} +\infty, f(x) \rightarrow \infty$   
 $x \xrightarrow{L} -\infty, f(x) \rightarrow 2$



x	y
-2	8
-1	5
0	8
1	14

8.  $y = 2 \cdot 4^{x-2} - 3$  *asymptote*  $b > 1$  Growth or Decay?

Yint:  $-\frac{23}{8}$  or  $-2.875$  Asymp:  $y = -3$   
 D:  $(-\infty, \infty)$  R:  $(-3, \infty)$   
 EB:  $x \xrightarrow{R} +\infty, f(x) \rightarrow \infty$   
 $x \xrightarrow{L} -\infty, f(x) \rightarrow -3$



x	y
0	-2.875
1	-2.5
2	-1
3	5
4	29