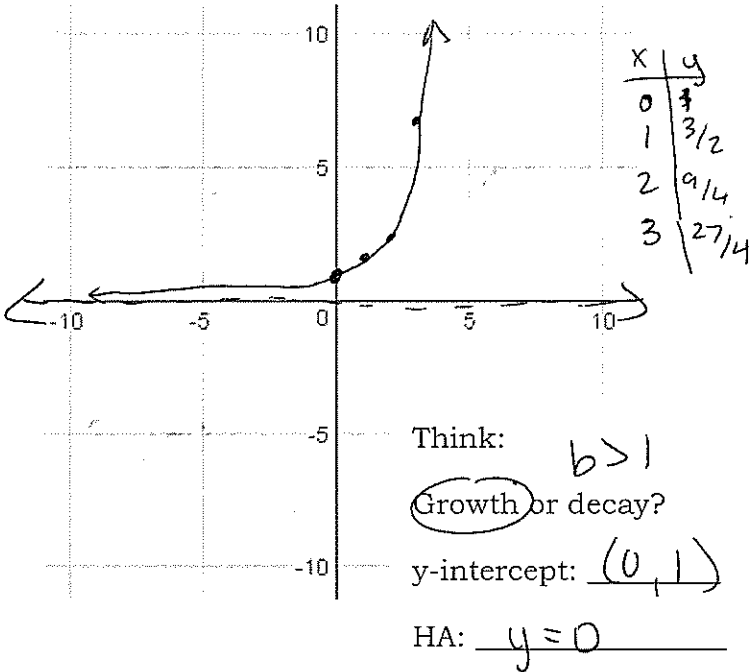


Key

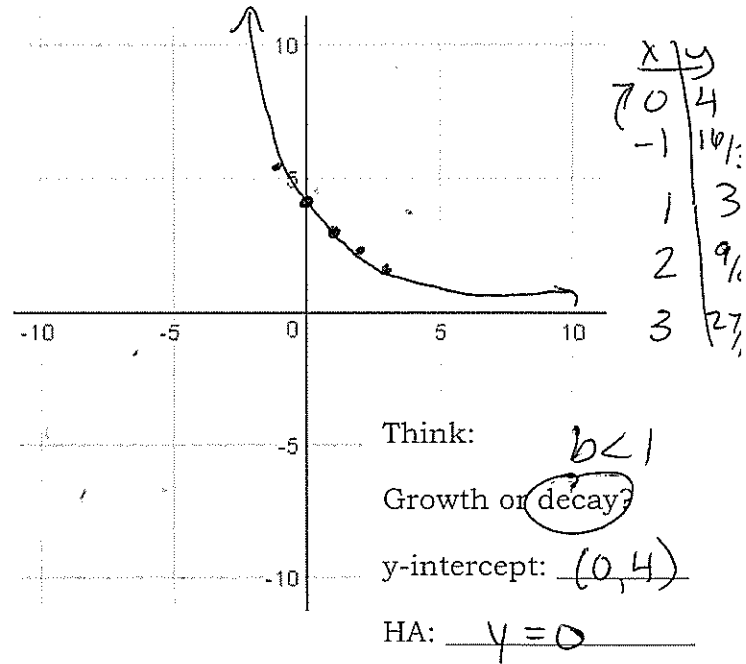
Graphing Exponentials

Graph the following exponential functions:

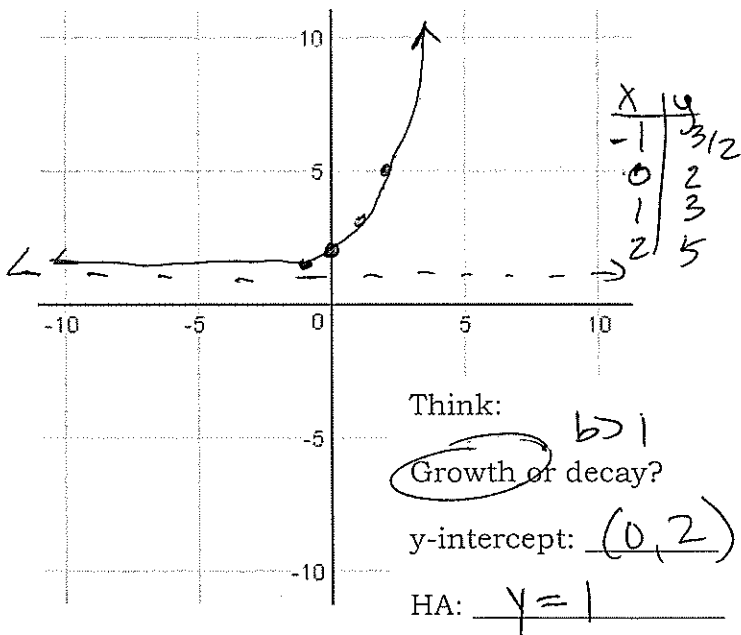
1) $f(x) = \left(\frac{3}{2}\right)^x$



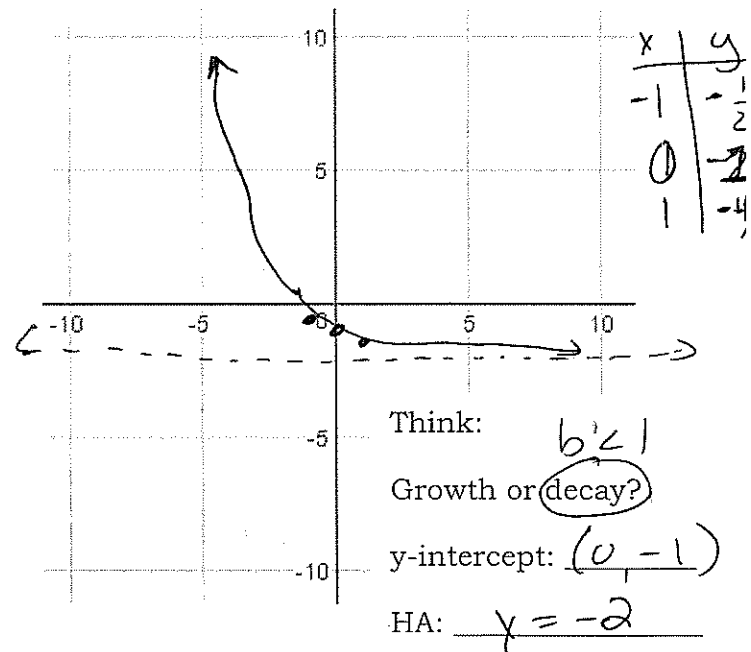
2) $f(x) = 4(.75)^x$



3) $f(x) = 2^x + 1$

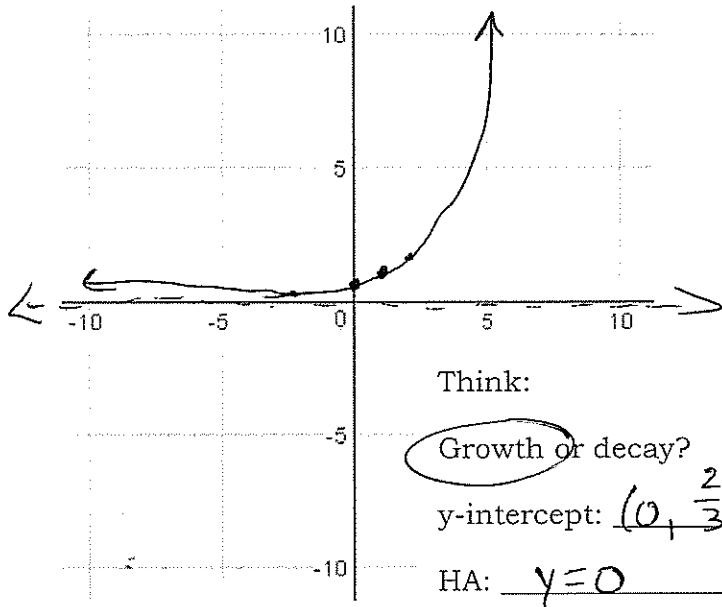


4) $f(x) = \left(\frac{2}{3}\right)^x - 2$



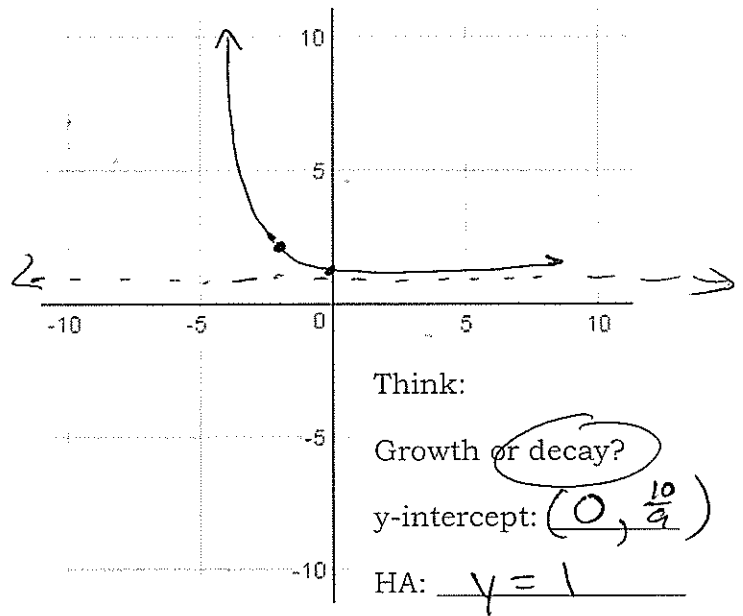
5) $f(x) = \left(\frac{3}{2}\right)^{x-1}$

x	y
-1	
0	2/3
1	1
2	3/2



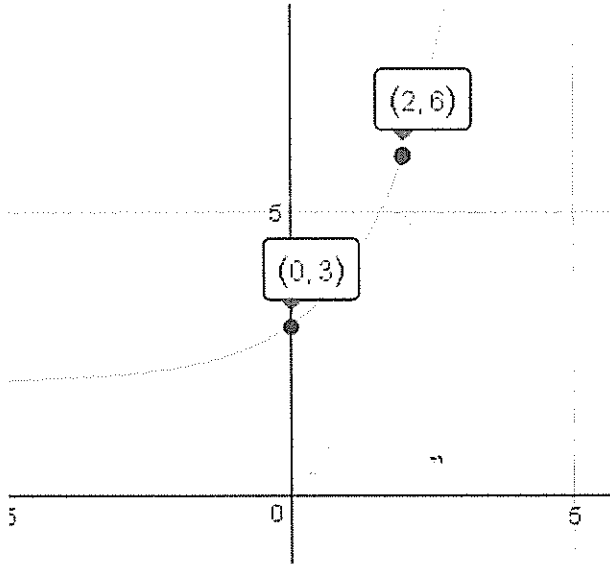
6) $f(x) = \left(\frac{1}{3}\right)^{x+2} + 1$

x	y
-2	2
0	10/9
1	28/27



Write the equation for the two graphs below:

7)

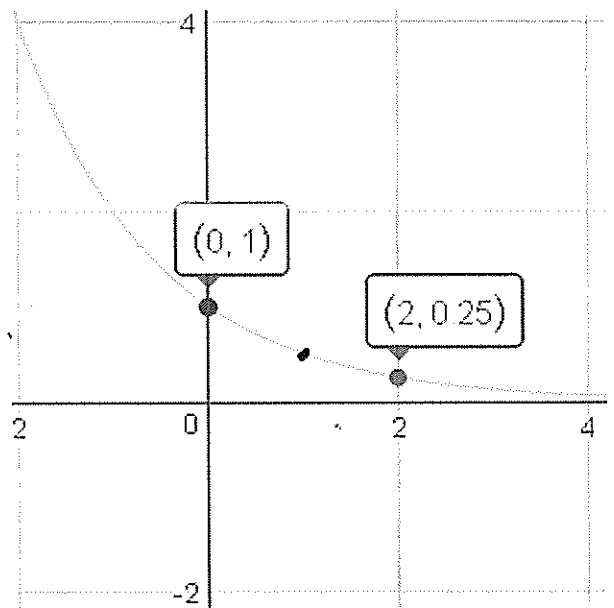


x	y
0	3
2	6

Growth $\rightarrow b > 1$
 y-int $(0, 3)$
 HA: $y=2$

$f(x) = 2^x + 2$

8)



x	y
0	1
1	1/2
2	1/4

$f(x) = \left(\frac{1}{2}\right)^x$

HA: $y=0$
 Decay