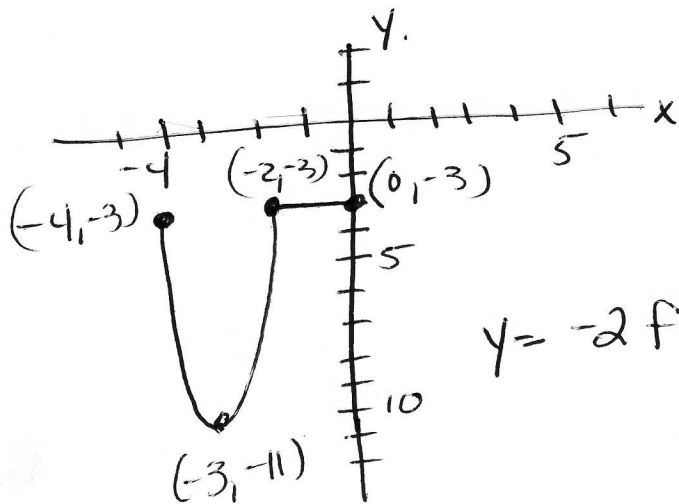
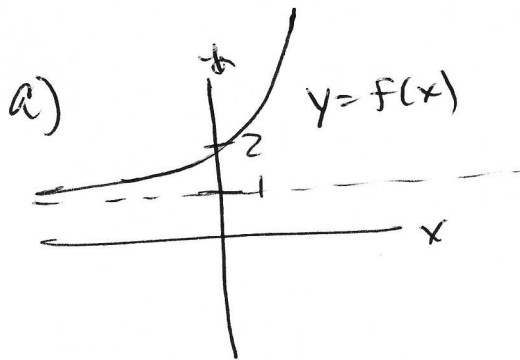


$(-3, 0) \xrightarrow{\text{left 1}} (-4, 0) \xrightarrow{-2(x,y)} (-4, -3) \xrightarrow{\text{down } 3} (-4, -6)$   
 $(-1, 0) \rightarrow (-2, 0) \rightarrow (-2, -3) \rightarrow (-2, -6)$   
 $(-2, 4) \rightarrow (-3, 4) \rightarrow (-3, -8) \rightarrow (-3, -11)$   
 $(1, 0) \rightarrow (0, 0) \rightarrow (0, -3)$



$$y = -2f(x+1) - 3.$$

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



b) yes, b/c it passes Horizontal Line Test

c)  $x = 2^y + 1$   
 $x - 1 = 2^y$   
 $y = \log_2(x - 1)$

$$f^{-1}(x) = \log_2(x - 1)$$

