2.2

(a)
$$||x|| - ||4| \times ||2| - 2|| ||4| \times ||4| \times$$

6)
$$2b(x) = 2(2^{x}+1) = 4^{x}+2$$

(i) $b(x) = 17 \Rightarrow 17 = 2^{x}+1$
 $2^{x} = 16$
 $x = 4$

(ii) $2b(x) = 6 = 12 \Rightarrow 12 = 2(2^{x}+1) = 6$
 $18 = 4x + 2$
 $4^{x} = 16$
 $18 = 4^{x} + 2$
 $4^{x} = 16$
 $18 = 2^{x}$

(iii) $f(3) = 2^{x}$

(iv) f

aii) g(3)=7 aii) g(-7)=Unde(inec)

Of(x)=3 x=3.5

(8 (ai) y(0) = -3

