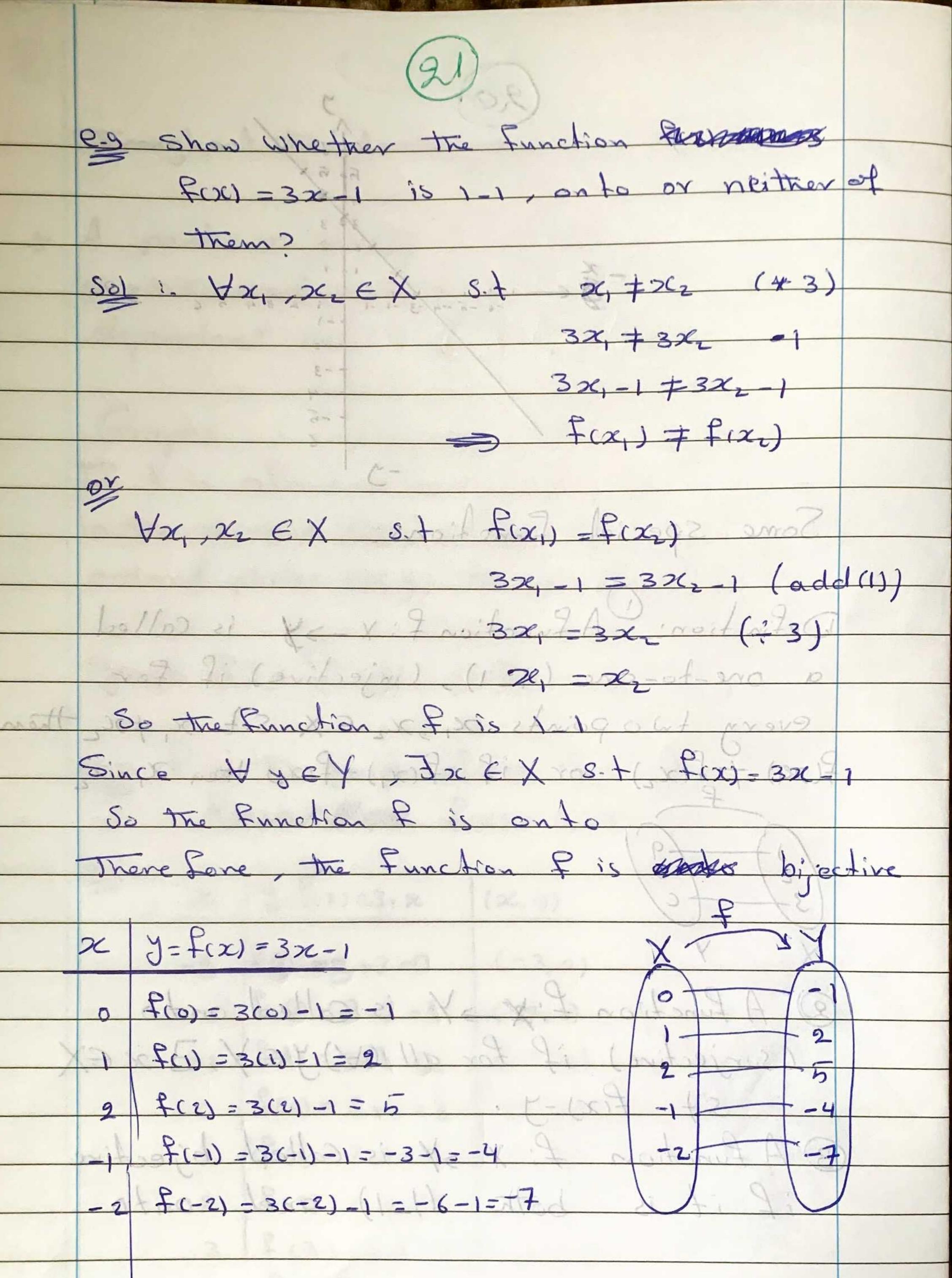
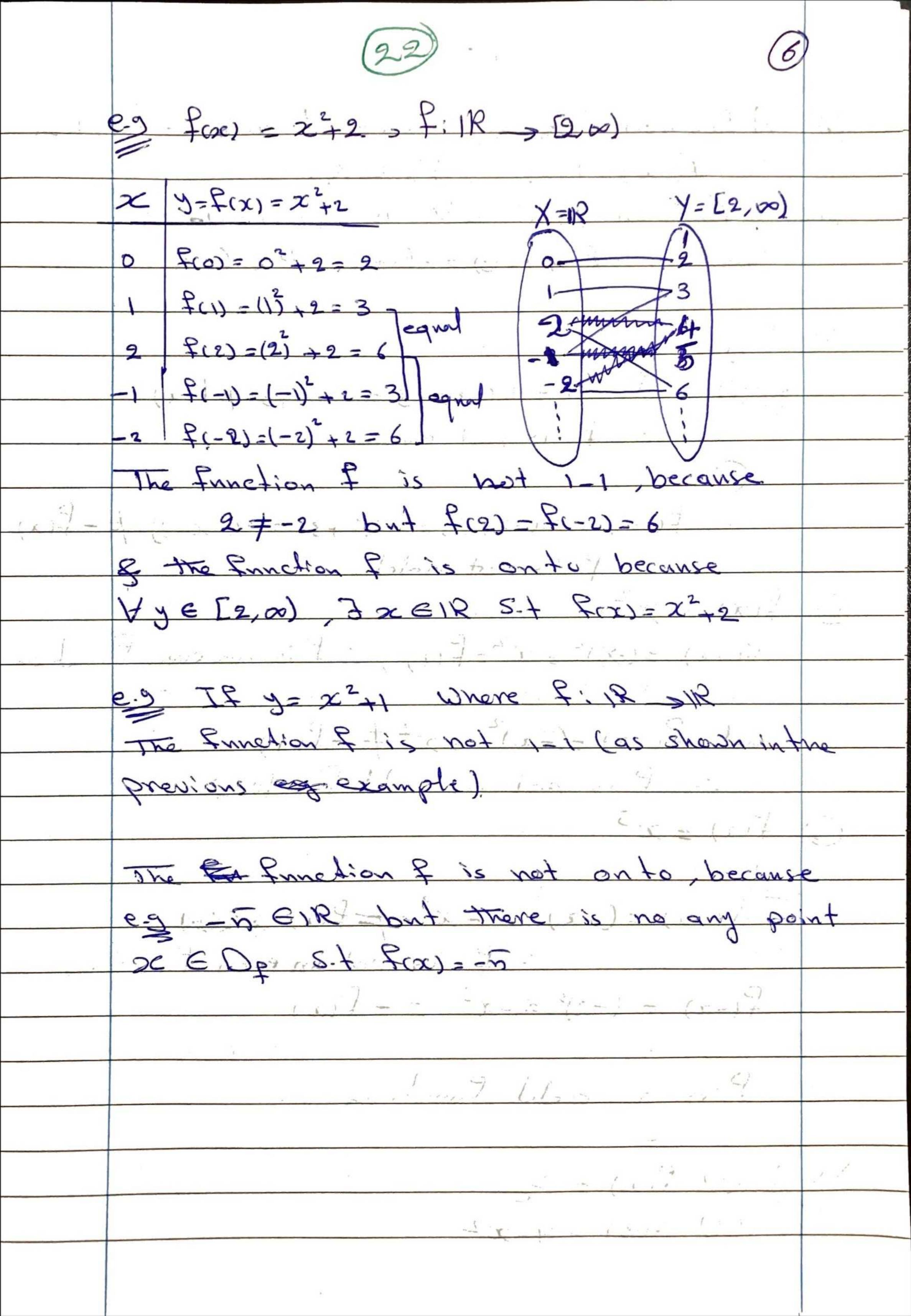
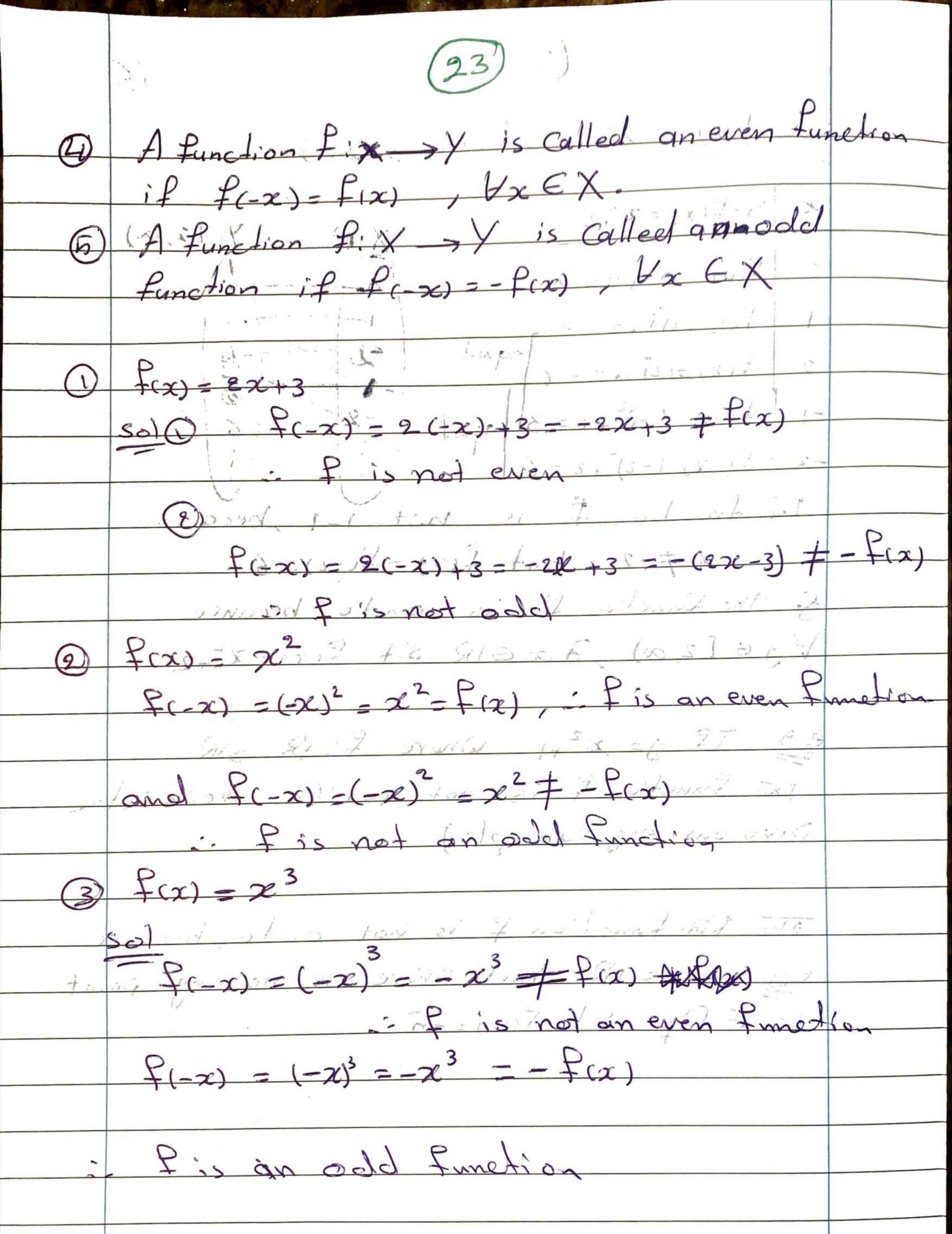


Some special Fundions Definition: Afunction fix sy is called a one-to-one (121) linjective dif for every two points oc, 700, EX Sit oc, +302 Then f(ser) + fix) + cor x if f(x,) = f(x) then x = x 1-30E= (x)7=1 Punction Fix of is called onto (Surjective) if for all (V) yey, Afre EX 5-1-1305-1507 e 3) A function f: X->Y is called bijective if it is both - (1-1) and 5-onto







H. 2 (2) F(x) = 1/2 x2

Operations of Function If I and a are two functions their J(7+9)(x)= 7(x)+9(x) 2 (F-9)(x)=F(x) - 9(x) 3 (f. 9)(x) = f(x). g(x) f(x) = f(x)Where g(x) 7 $e.9 + f(x) = \sqrt{2}$ $= \sqrt{2}$ $= \sqrt{2}$ (fog)(x) = f(g(x)) = N 222 $(g \circ f)(x) = g(f(x)) = (G(x)^{2})^{2}$ (fog)(x) + (gof)x eg If fa) = 5+8x2 , g(x) = 3-4x2 カナセエン 9(2) 3-4x2