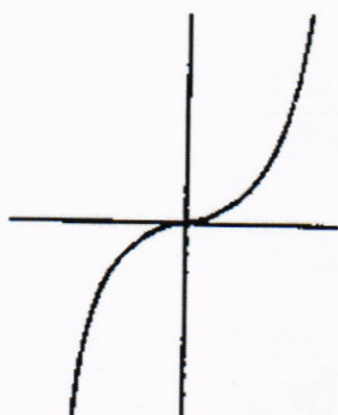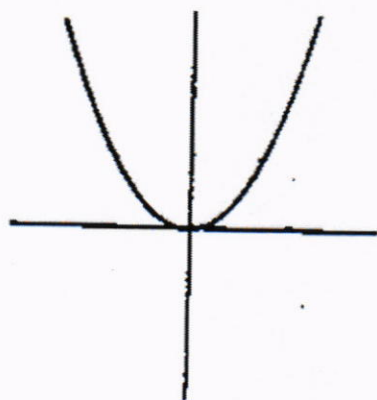(3) if f is both one-to-

one and onto, i·e· invertible, then each horizontal line will intersect

the graph of f at exactly one point·

$$f_4(x) = x^3$$

f(x) NOT (ONE-TO-ONE) & NOT (ONTO)

$$f_1(x) = x^2$$