

find (509)(x) 9(g(x1) g(x+2) X+4 c) find (fog)(x) and (gof)(x) 1 g (f(x)) f(g(x))9(-*) f(x+2) -x-2 -×+2 Problem 3 Define $f: Z \rightarrow Z$ by f(x) = x+1. a) of injective? choose $a, b \in \mathbb{Z}$ and assume f(a) = f(b), at = 6+1 a=b. b) f sujective?

Tyes); let a t 7. then $a - 1 \in \mathbb{Z}$ and f(a - 1) = a - 1 + 1 = q. c) f bijectur? Tyes, f both injective a swjective