Ann: Test 2 Monday

5 from yesterday)

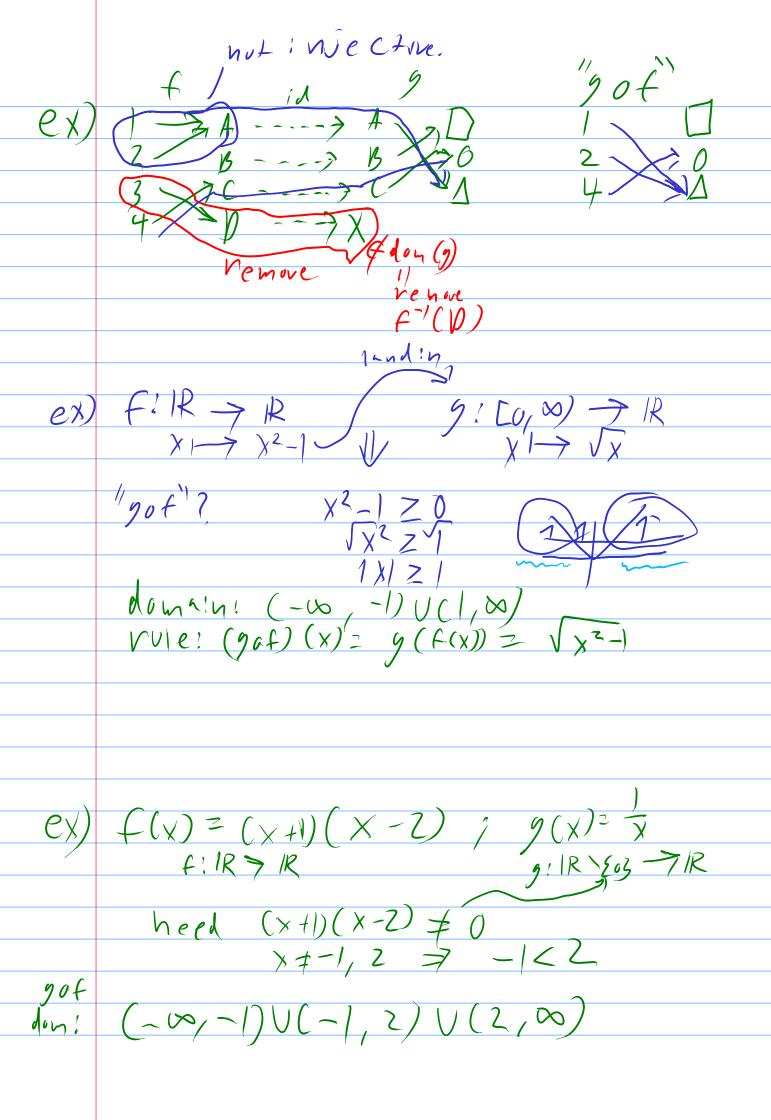
H(X) =
$$(6x-1)^2$$
; f, g \(\frac{1}{2} \) if \(f \) g \(f \) if \(f \) g \(f \) if \(f

Defintion: Suppose f:A->B and g:B->C, then gof:A->C is the function (gof)(x)=g(f(x)) "g (post) composed with f" "f pre-composed with g"

$$A \xrightarrow{f} B \xrightarrow{g} C$$

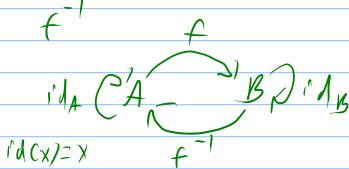
-leve if fix+b and g: C>D W/

$$||g_0 f''| = g_0(f|_{f'(G)})$$



Oday: Ihverses of functions

Definition: g:B->A is the inverse of f:A->B if $gof=id_A$ and $fog=id_B$. Denote g by f^{-1}



Fact: Inverses are unique

Definition: A function is invertable if it has an inverse

A function is invertable if and only if it is bijective (both injective and surjective)

Definition: A function is surjective if its codomain equals its range/image. Also called onto.

Definition: A function is injective if whenever f(a)=f(b), then a=b. also called 1-1.

non-ex)

+ (-) = + (6) Yet h = 6

-only 1

- in twosection.

Fails Hurizontal linetest.