10.10.23 SEMINAR 2 h(x) = g(f(x)) -l(p) = g(f(x))411/2029(4 h(5) = D=g(f(3)) h(3)=9(7(3)) + 3EM

Cele de mai nes de encretageaper (2 date find fiA > B, q: C -> D, on BCC, defruite fruits 907; A - 0D, (907)(a) = g(f(a)) If gof s.n. compusa fundator got A FBC Condition saire posts 30F 13 Exemple : F: N-SE, f(m)= J-3m g: Q - sa, g(h) = 4 a J- Q X Cf. diagnativa! fog me an deus.

19 H. disegnamen', gof: N - Q. Lun, gof(th) = gcf(th)) = = f(th) = 5-3th = 5-3th f(th)²+1 (5-5th)²+1 7th²-30th+26

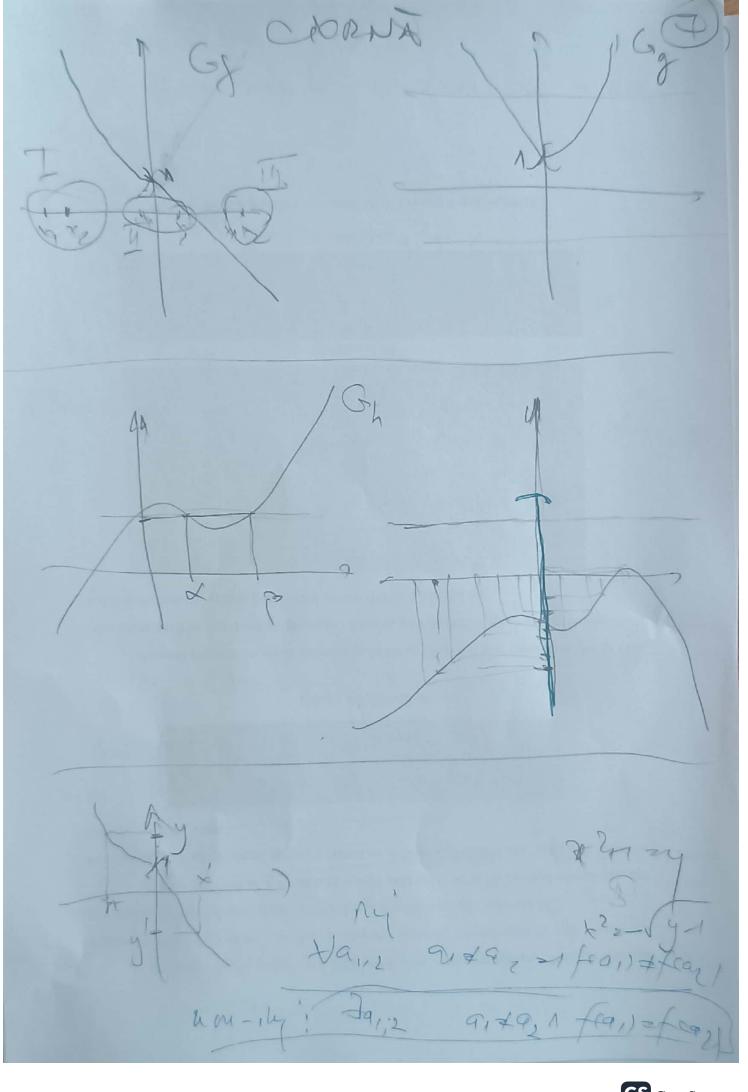
1:12-12 , fcx)=7-3x $g: \mathbb{R} \to \mathbb{R}$, $g(x) = \begin{cases} x^2 + 1, x = 3 \\ 2 - x, x \leq 3 \end{cases}$ L: W2 > R h(x) = \ 1x-2, x>-1 of: 12 - 12 Jof(cx) = gcfcx1) = f(x) +1, f(x) >3 = $= \begin{cases} 9x^{2} - 42x + 50, & 7 - 3x > 3 \\ 3x - 5, & 7 - 3x \in 3 \end{cases}$

tog: 12 - 12 $(f \circ g)(x) = f(g(x)) = 7 - 3g(x) = f(7-3x^2-5)$ 7-3.2 ~2m, x>3
2-x, x ≤3 $=\begin{cases} 4-3\times^{7}, & \times 73\\ 3\times +1, & \times \leq 3 \end{cases}$ log: 12-317, (hog)(x) = h(g(x))= $= \begin{cases} 3(x)-2, & g(x) > -1 \\ 3(x)+1, & g(x) \leq -1 \end{cases}$ $= \begin{cases} 5(x^{2}+1) - 2 & \begin{cases} x^{2}+1 > -1 & (2) & x^{2} > -2 & (6) & (6) & (7) \end{cases} \\ 5(2-x) - 2 & \begin{cases} x^{2}+1 > -1 & (6) & (6) & (6) & (6) & (6) \end{cases} \\ 5(2-x) - 2 & \begin{cases} x^{2}+1 > -1 & (6)$ $(x^{2}+1)+1$, $\begin{cases} x^{2}+1 \leq -1 \\ (x^{2}+1)+1 \end{cases}$, $\begin{cases} x^{2}+1 \leq -1 \\ x>3 \end{cases}$ $\begin{cases} x>3 \end{cases}$

CS CamScanner

5x2+3, x>3 T. D: 20 81 When o fot s.11. IN ¡ECRNS Leca a du ce (ovie dona) cole mente de tente un che Moute diferity. 2164 ROS! Funda fiA >B sin injectiva a, \$ a2 =) f(91) \$ f(3) +anz ∈A

Pool Pundoa fIA-B e mjectiva dalaca 49,12 EA fear = fear = 19,292 B W W W -> X No efruitse. in Tuind sm. Surjeonva daca o fructive merfle co-low enine la "[8] RIGURDS! Fructea f: A-, B s.n. surjectiva doca Hb∈B Ja∈A frajzb fig:12 > 12 > 12 / x2+1, xco 3cx) 2 \x 5t1, x 20



The #112 ER, X1 \$ \$ pt a fxa ideile, consideram n/2 x2. 7 XICX50. Atmid - ×1>-×2>0 (2) X63X530 => X343X5451 f(x1) > f(x2) =1 f(x1) = f(x2). I XICOEX2. Atuen f(x1) = x2+1 > 12, =1 f(x,1) f(x2)=1 f(x2) = 1-x2 ≤ 1 2(01) × f(x2) $M O \in X, \langle X_2 \rangle$ Atunci - x, >-x2,
deer' f(x11=1-x1>1-x2=f(x2)-) f(x1) # +(x2) ber of e meetila to Rue year, vreau; there fixing Daca 471, han x = - 19-1 60. Atuna flas x2+1 = (-i/y-1) +1=y-1+1=y Daca y = 1, habe x = 1-1/30.

Atunci f(x) = 1 - x = 1 - (1-4) = 4 Deal fe myesters a. 9(1) = 2 = 9(-1) Evident, 17-1. Deci, grun e mjedira CHORNA: I I my! HYER FREAD gustay I g newy: Frenk theton gradzy hain y 20. Fre x Eur Drie xco, J(x)21-x)1>0 =y=1 90077 Dana x70, FCX1= x2H3170=4 52 9001#4. Ca uruale, of mu empedina