$$\frac{d}{dt} = \frac{1}{2} \frac{dt}{dt} = \frac{1}{2} \frac{dt}$$

(1) 3 pr = x3 , 2 [x] = x2] <u>Selli</u> (gog') (x) = g(x^{1/3}) = g(x^{1/3}) = xe] $\left(g^{-1},q\right)(x) = g^{-1}\left(g(x)\right) = g^{-1}\left(x^{3}\right)^{\frac{1}{2}} = \pi$ in the inverse of 9(x). variated. Donain and Range of Inverve Furction & Domain of = Range of 5 Range of 5 - Domound 5 ~ \ \f\x = 2xy \ \f\ \(\r \) - \ \f\ \x D, ((4 'fm) D: { or - to)
R: [- or. +or)

17 Method Son Finding Invense Function:

Step1: Let y = fly)

Step1: Solve ton (X)

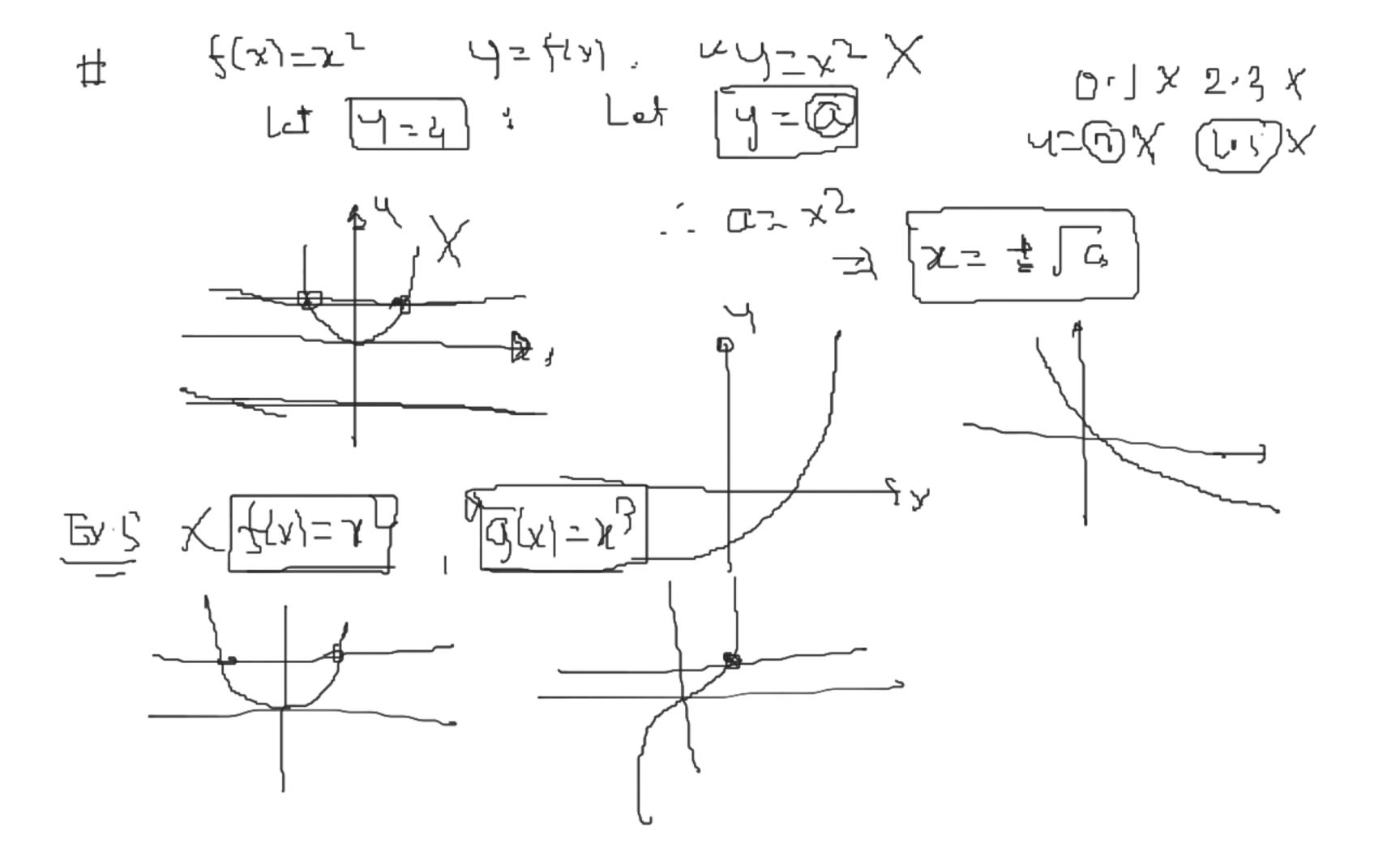
x Step3: [x=5-1(y))

Step4: Change x and y

wy y = (-1(x) then

$$\frac{|3x-2|}{|5x|} \cdot |x| + |x|$$

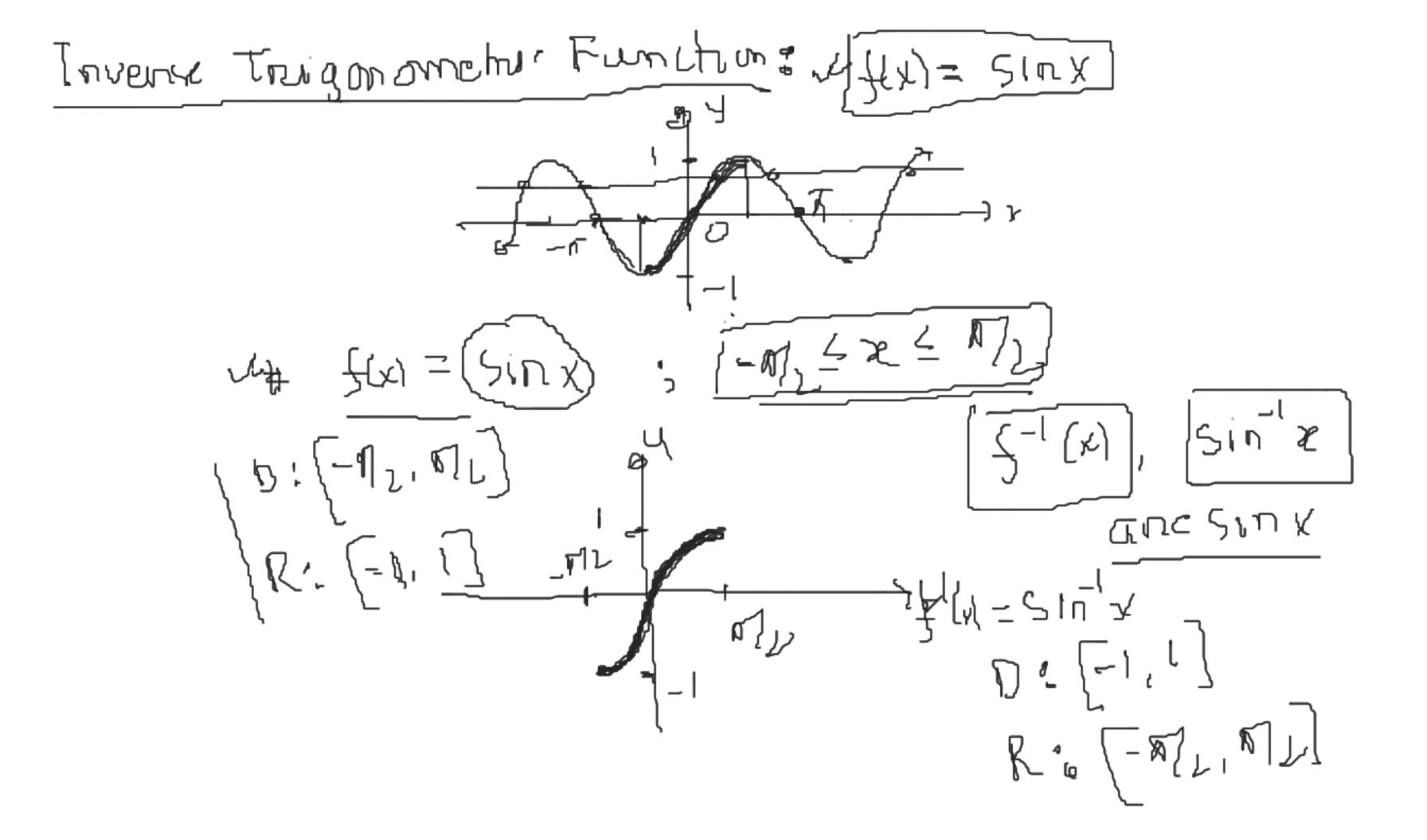
theorem: A function has an inverse iff it is one-to-one. W HOOD BOND LINE TONE

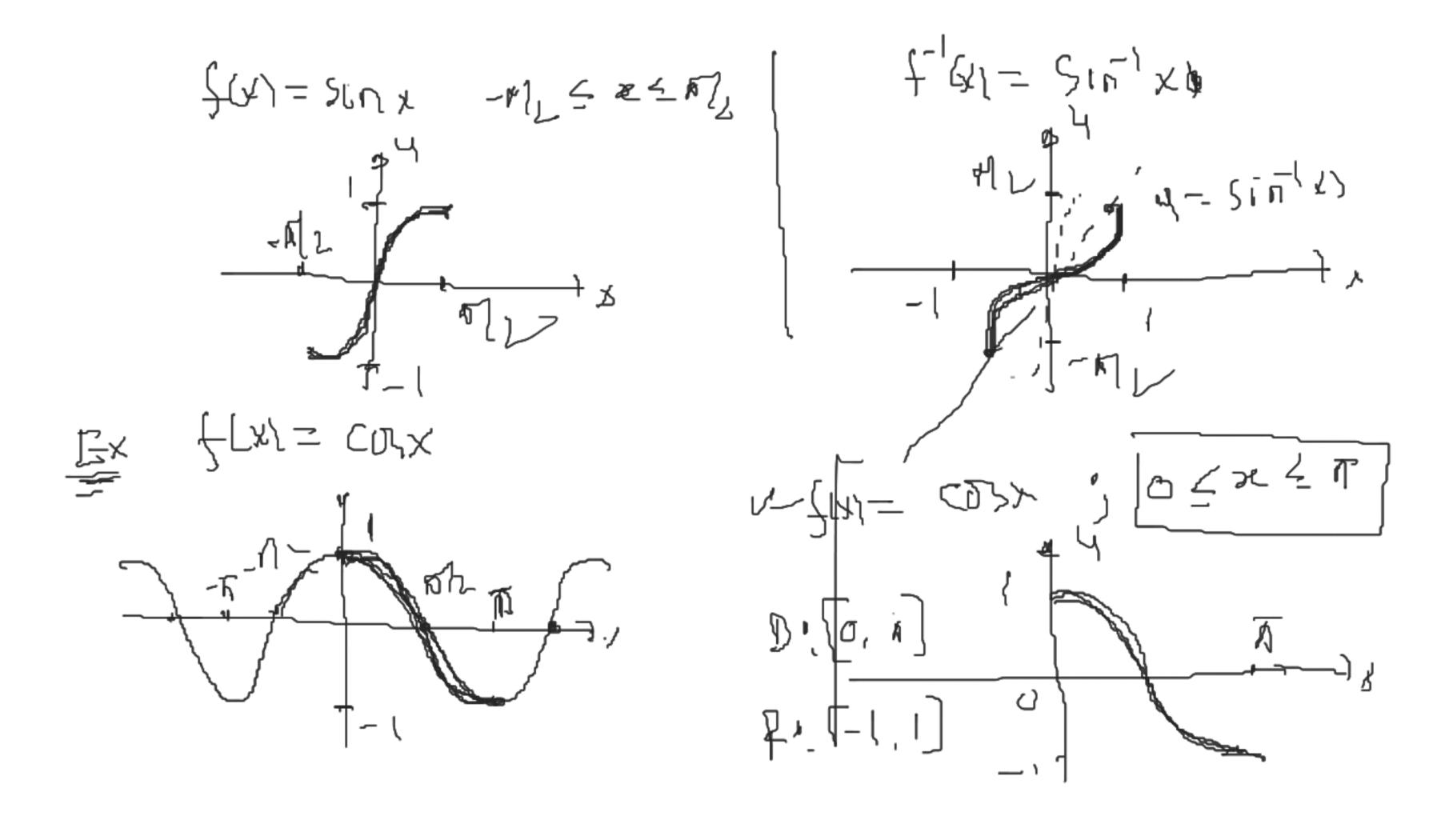


ל ש ליות שבת יחותפרית Threwson ?

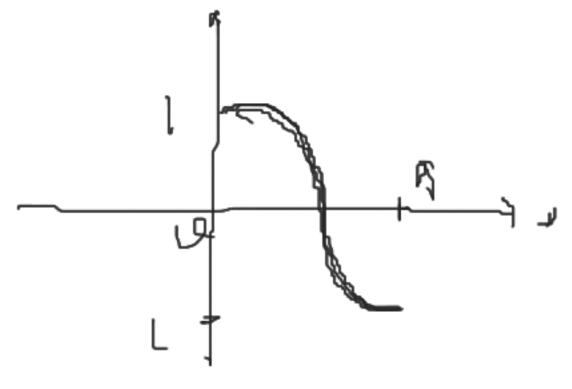
Restaucted mais on white 22/k; # Z(M)= 15." 1x=-1x -- 5-1 (x)=(インゴァ*ー*シ

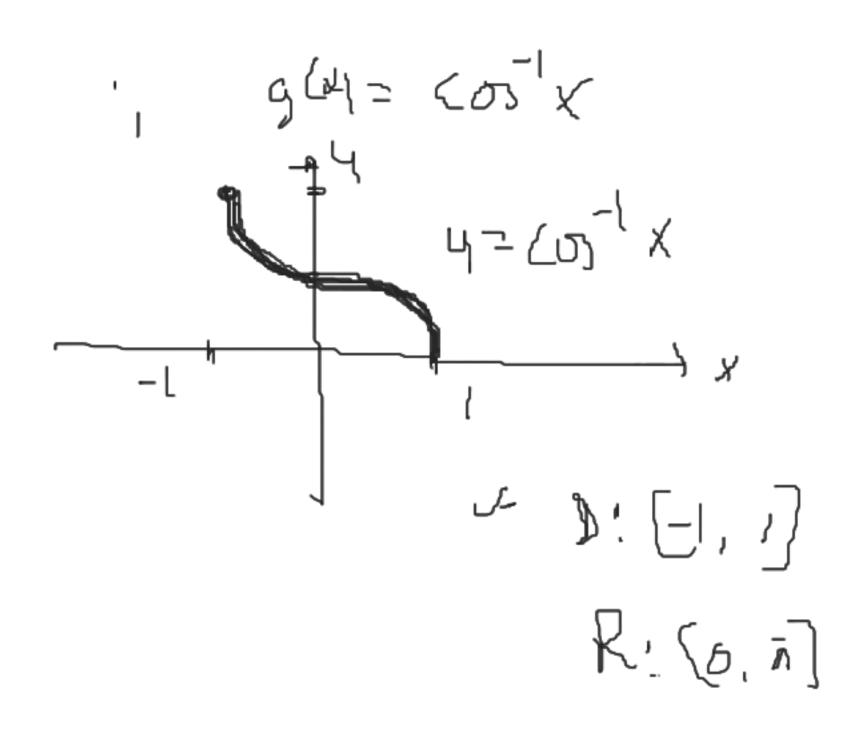
Fy 3 = f(x) 4 - ~~~ 21 大2 十 1 7 4= + 17 F1(x1= +) x

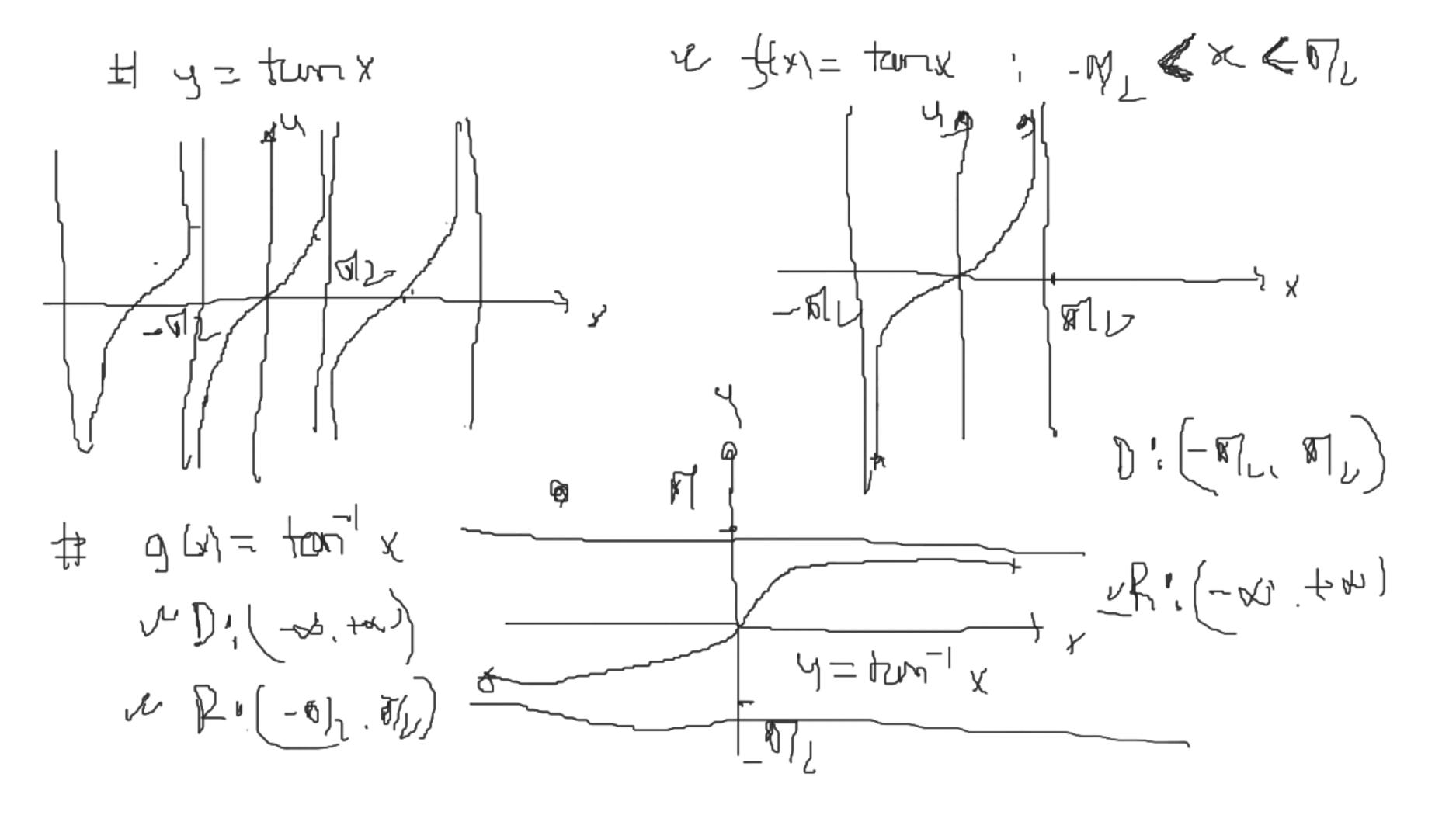




fb/= coxx 1, G=x4x







Range Domer ~ [-[.] - FZU 17U] [-1, 1] SUB X -1.1 CO3 X [0, 50] (-K +d) talent $\left(-M^{5}\left(\mathbb{Z}^{5}\right)\right)$ Zor (~ KJ. D)

Identities g | $Sin^2x + (u)^2x = \sqrt{1-x^2}$ $Cos(sin^2x) = \sqrt{1-x^2}$ $Sin(cos^2x) = \sqrt{1-x^2}$ $tos(sin^2x) = \sqrt{1-x^2}$

H.W. Ex 0-4? 1 (C.D), 3 (C.E), 9-20, 4044)

$$\cos \phi = \frac{\pi}{1} \rightarrow \cos \phi = \pi$$

$$= \lambda \left(\cos \theta = \sqrt{1-x^{2}} \right)$$

$$= \lambda \left(\cos \theta = \sqrt{1-x^{2}} \right)$$

$$= \lambda \left(\cos \left(\sin^{-1} x \right) = \sqrt{1-x^{2}} \right)$$

$$= \lambda \left(\cos \left(\sin^{-1} x \right) = \sqrt{1-x^{2}} \right)$$