Entonces 
$$y = \frac{1}{\sqrt{1+x^2}+x}$$

Entonces  $y = \frac{1}{\sqrt{1+x^2}+x}$ 
 $y = \frac{1}{\sqrt{1+x^2}+x}$ 
 $y = \frac{1}{\sqrt{1+x^2}+x}$ 

Entonces  $y = \frac{1}{\sqrt{1+x^2}+x}$ 
 $y = \frac{1}{\sqrt{1+x^2}+x}$ 

Entonces  $y = \frac{1}{\sqrt{1+x^2$ 

83 Enmand B. Hoja 2/2 Entonces demaster gr 3(x+y+z) < 1/xyz rs subjectentz (x + y + z) (x y z) = 3 x²yz + xy²z+ xy²z+ xyz² + xyz² + xy²² L ] xy (xz +yz) + y2(xy+xz) + 2x(xy+zy) < 1 (=) xy(1-xy) + yz(1-yz) + zx(1-zx) < } (o Sen fla) = a (1-a) = a -a2 Entraces  $S(rq) = 1-2a \Rightarrow f''(a) = -2$  (0) f(xy) + f(yz) + f(zx) ( f(xy+yz+zx) = f(3)= 1(2)=29

 $6(xy) + 8(yz) + 8(zx) = \frac{2}{3}$ 

Emmanuel B. Sucio 1/ 1 - THE + X = THYZT + X [1+x2] .151+y + 51+22 + x+y+2 = xy2  $\frac{1}{2} \cdot \left(\frac{1}{3}\right)$ = 353 (Ig welded xy +x7+ xx+y2+ 2x+2y=2 KEXTED T x(y+2)+y(x+2)+z(x+y)=2 1=xy+y2+2x233 xy222 2) ((1) 3/2 > xyt) Ary 3<sup>2</sup> 4 - xy 2 m22 E

$$(x+y+z) = (x+y+z)^2 = (x+x)^2$$

B. Ser 31 5 Emmand 11+x + 11+2 + 11+5, 1x+2+5 (3(x+x+2) = xyz X+2+2 63 (21312) (x+y+z)2 (x+y+z² /2+z² /2+y+z² /2+z² (x+y+2) [ ++ 3+2
3 2++2+42+22 - 2-7-27 xytyz > Txyz = Txyz Ty (> [x) + [x] + [x]) THY + TZ - TXyZ 1 2 ( TX + TX + TZ)

Emmend See 4/5 3(x+y+8) & x12 (x+y+2)(xy2) = = = X=1, 2=1 X2y2+xy27+xy22 5 3 xy(1 xz+yz+z2) (52-1)2 xy (1-xy+z²) = 3? て +22 モー 2+27-1 =0 2= -2 -1/8 = 12 -1 3 (212) -1) (3.512) (2) 3 (617-8-3 +212) 162<sup>2</sup> ( <del>3</del> \[ \frac{2}{2} \frac{3}{24} = \frac{17}{2} 24 744

X272+ X727+ X72257 XIII xy XX xy (1-xy) + xz(1-xz) + yz(1-yz) ? xy(1-xy) =  $\left(\frac{x}{2}\right)^2 = \frac{1}{4}$ f(a) = atta) = a-a? f'(a) = 1 -2 a f'(a) = 0 - 2 = -2 LO f(a)+8(b)+8(c) 48(a+610)  $= \frac{1}{3} \left( \frac{2}{3} \right) = \frac{2}{3}$ 8(m)+8(n)+8(c) = 3 8