NOME: FELIDE ANCHANTO DO CUMPA MONDOS N2: 2252740 FUNCAU COMPOSTA $g(x) = X^3 + 2$ $\int (x) = \sqrt{x}$ $|(g(x)) = \int_{X^3+2} = h(x)$ Dom (1) \cap Im(g) \neq β $h(x) = \beta(g(x)) = (\log \beta(x))$ $\operatorname{Don}(h) = \operatorname{Dom}(\beta) \cap \operatorname{Im}(g)$ A É A FUNCES COMPOSTE DO com g tilibra 1: 1n-01n |n-o|n $\times -o f(x) = x^3$ y: |n-o|n $x -o g(x) = x^{5+1}$ log(x) = l(g(x)) = l(x5-1) = (x5+1)3 gol(x)= g((x)) = g(x3) = (x3) 5+1 = x15+1 g: JO, +2/[-+ In $\frac{10}{10} + 20 = 10$ x - g(x) = -x Don() 1 Im (g)

JO,+ DE 1 J-D, OE = \$

log (L) A

Dom (g) 1 Im (l)

JO,+DE 170,+DE = JO, +DE

= golu=g(fa)=g(Jx)=-Jx

 $\int_{\mathcal{I}} (x) = \frac{\chi^2 + 1}{z} \qquad g(x) = 5^{\times}$

 $\log (x) = \log (x)) = \log (s^*) = (s^*)^2 + 1$

 $= 5^{2\times} + l$

 $g_{0} = g(f_{(x)}) = g(\frac{x^{2}+1}{2})$ = 5

tilibra