$\frac{y^{3}(x^{2}+y^{2})-(2x)(xy^{3})}{(x^{2}+y^{2})^{2}} (xy) \neq (\varnothing, \varnothing)$ $\frac{3\chi y^{2}(\chi^{2}+y^{2})-2y(\chi y^{3})}{(\chi^{2}+y^{2})^{2}}, (\chi y^{3})$, (x1y) = (0,0) (x,y)= lim g(a+ha)-g(a) i = (0,1) g(0,1)-0 $\frac{h^{3}(0+h^{2})-2(0)(0h^{3})}{(0^{2}+h^{2})^{2}}$ £=(1,0) k(àthù)-g(à) /< (h,0 1/m 3h(0)(h2+0)-2(0)(h(0)) hao (h2+0)2 ling Not equal 2. Mixed paritials not equal so not C2 by contrap.