1. Find plane tangent to the graph of the point (0,2,7).

They = x2+y3-1 at the point (0,2,7). QUIZ 5 f = t(xoide) & At(xoide). (x-xoid-le) soln: $= 7 + (2(0), 3(2)^2), (x-0, y-2)$ = 7 + 12(y-2)[Z=7+12(y-2)] side work OX = Jx 3 = 3 ds 2. If P(t) parametrizes the level set. f(x,y) = c, show that for every point (xo,yo) = Flto) on the the perpendientor.
have $\nabla f(xo,yo) & F'(to) perpendientor.$ Solvi. Since PH) parametrizes the level set toxis)=c me poine t(L(F))=c to+ event => de[f(7(0)) = 7f(7(t)) . F'(t) = 0 I shace the function is - By chair constant. plug in to.