Diffrential Topology, **Yu Zhao**

Homework Solutions

Consider the map f from R to $\mathbb{R}P^2$ by $f(t) = (\frac{d}{dt}(x_1(t), \frac{d}{dt}x_2(t), \frac{d}{dt}x_3(t))$, Then for $\forall y \notin f(R)$, we have the composition of f and the projection along y is still immersion. And those points are generic points since the image has measure 0.