Aprendizaje Astomático  $(1,1) = 1^2 - 1^2 + 2(1) = 1 - 1 + 2 = 2 = f(\vec{a})$ Vf (x,y) = <2x+2, -2y>  $\nabla f(1,1) = (2\cdot(1)+2, -2(1))$ Vf(1,1) = < 4, -2> = Pf(a)  $(\vec{x} - \vec{a}) = (x - 1, y - 1)$  $Z = f(\vec{a}) + \nabla f(\vec{a}) \cdot (\vec{x} - \vec{a}) \rightarrow$ Z= 2 + <4,-27 · (x-1, y-1) z = 2 + (4x - 4, -2y + 2)Z= 4 + 4x -4 + -24 7 = 4x -2y -> Plano tangente -> RTA