Calculo Vectorial Zaller #1 Corte #2 Andrée Felije Bemal Urrea. 7003748 OMultiplicadores de Lagrange, valou maximo y minimo.  $\frac{\partial}{\partial x} (x^{4} + y^{2} + z^{2}) = \lambda (x^{4} + y^{4} + z^{4} - 1) = 2x = \lambda 4x^{3}, \quad x = \lambda 2x^{3} - \lambda = \frac{1}{2x^{2}}$  $\frac{\partial}{\partial y} \left( (x^{2} + y^{2} + z^{2}) = \right) \left( (x^{4} + y^{4} + z^{4} - 1) \right) = (2y = \lambda 4y^{3}, y = \lambda 2y^{3}, \lambda = \frac{1}{2y^{2}})$   $\frac{\partial}{\partial z} \left( (x^{2} + y^{2} + z^{2}) = \lambda (x^{4} + y^{4} + z^{4} - 1) \right) = (2z = \lambda 4z^{3}, z = \lambda 2z^{3}, \lambda = \frac{1}{2z^{2}})$ X4+ Y4+24=1



