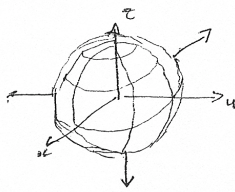


• General Quadratic form

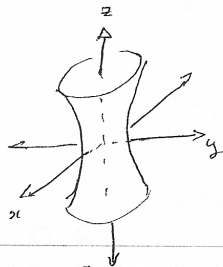
• includes spheres, ellipsoids, hyperboloids of revolution, etc

• eg.



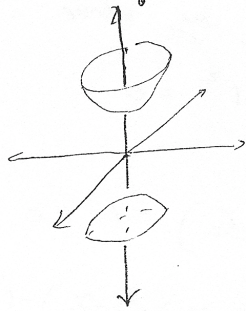
$$x^2 + y^2 + z^2 - r^2 = 0$$

• eg.



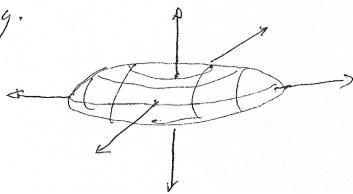
$$x^2 + y^2 - z^2 - r^2 = 0$$

• eg.



$$z^2 - (x^2 + y^2) = r^2$$

• eg.



$$\lambda_1 x^2 + \lambda_2 y^2 + \lambda_3 z^2 - 1 = 0$$