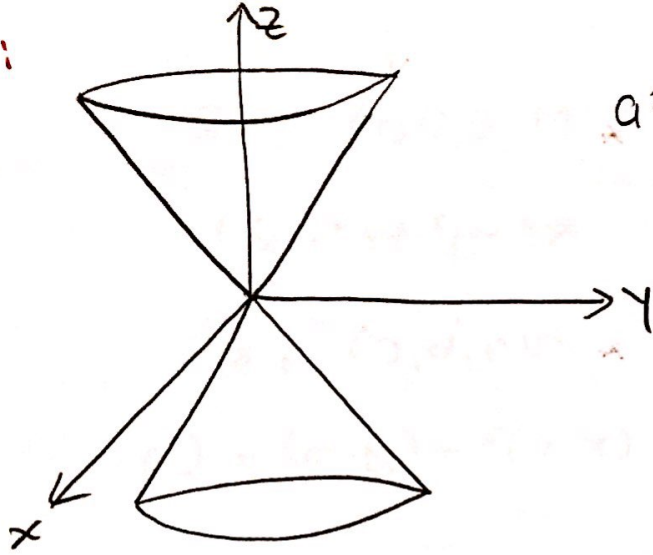
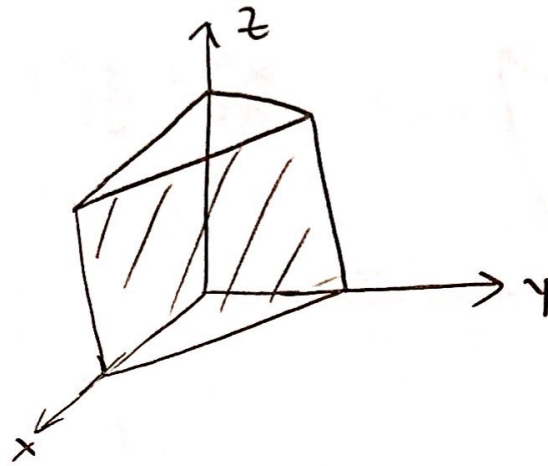


⊗ Cone:

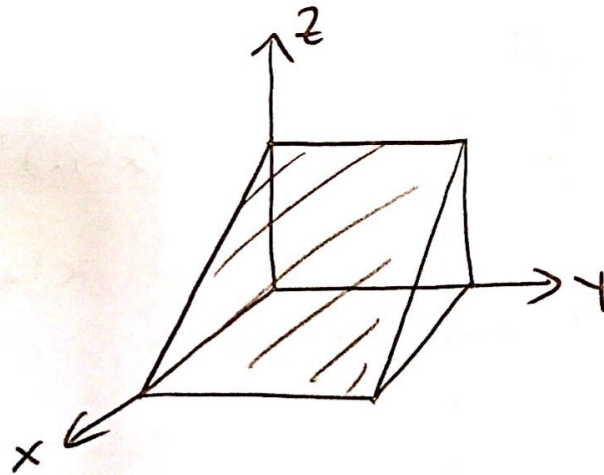


$$a^2x^2 + b^2y^2 = c^2z^2$$

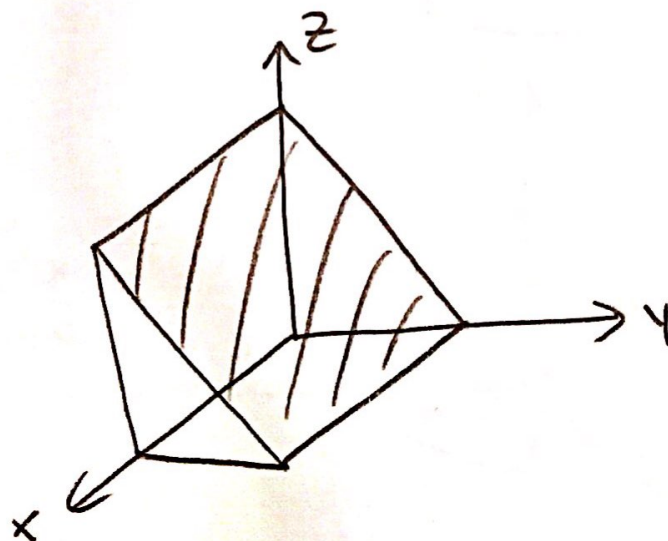
⊗ $ax + by + d = 0$



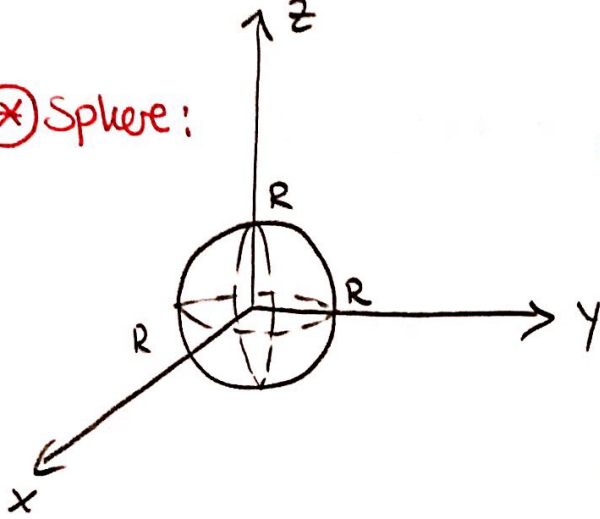
⊗ $ax + cz + d = 0$



⊗ $by + cz + d = 0$



(*) Sphere:



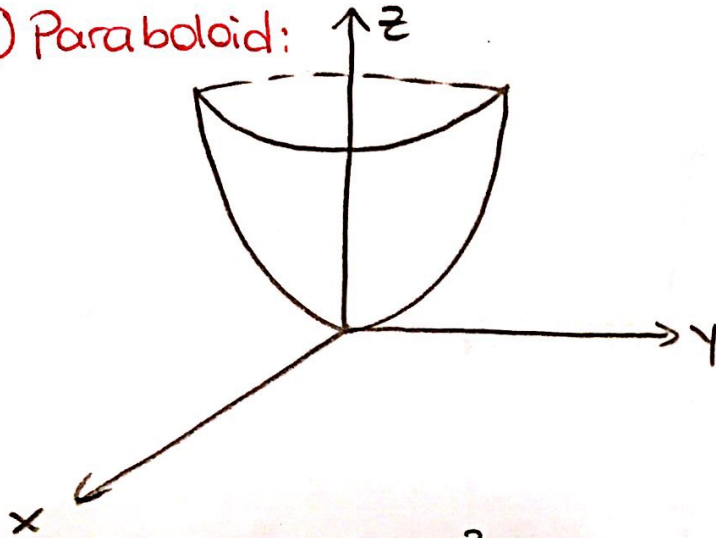
* $M(0,0,0)$, R

$$x^2 + y^2 + z^2 = R^2$$

* $M(a,b,c)$, R

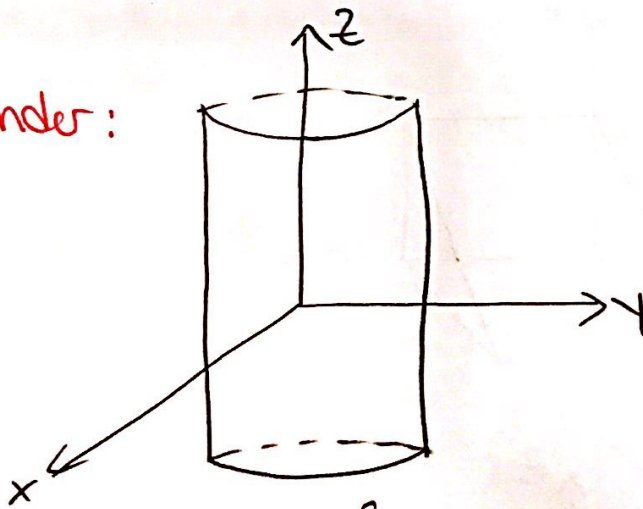
$$(x-a)^2 + (y-b)^2 + (z-c)^2 = R^2$$

(*) Paraboloid:



$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = \frac{z}{c}$$

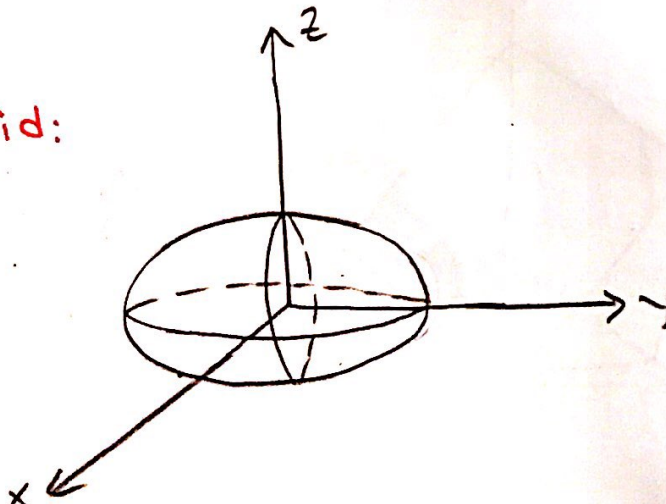
(*) Cylinder:



$$(x-a)^2 + (y-b)^2 = R^2$$

$$x^2 + y^2 = R^2$$

(*) Ellipsoid:



$$\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$$