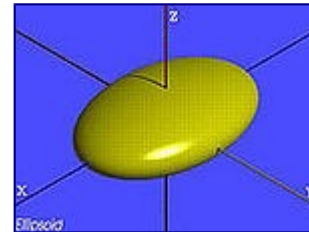


Quadriche non degeneri

Ellissoide

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



Sferoide

(caso particolare di ellissoide)

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

Sfera

(caso particolare di sferoide)

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

Paraboloide ellittico

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - z = 0$$



Paraboloide circolare

(caso particolare di paraboloide ellittico)

$$\frac{x^2}{a^2} + \frac{y^2}{a^2} - z = 0$$

Paraboloide iperbolico

(superficie rigata)

$$\frac{x^2}{a^2} - \frac{y^2}{b^2} - z = 0$$

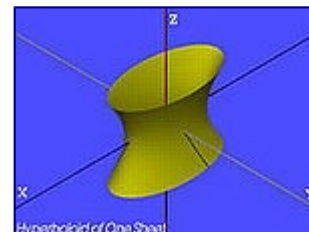


Iperboloide ad una falda

(iperboloide iperbolico)

(superficie rigata)

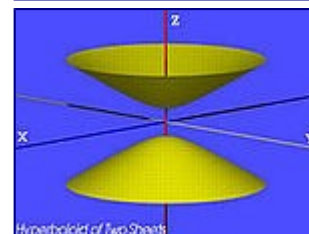
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$$



Iperboloide a due falde

(iperboloide ellittico)

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

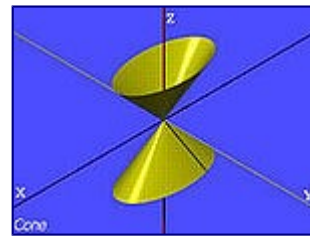


Quadriche degeneri

Cono

(superficie rigata)

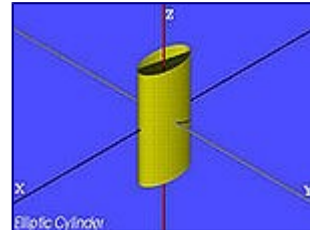
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 0$$



Cilindro ellittico

(superficie rigata)

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



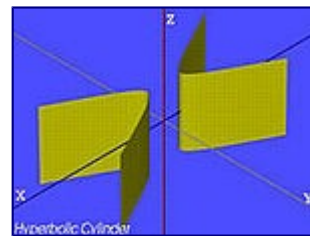
Cilindro circolare

(caso particolare di cilindro ellittico)

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

Cilindro iperbolico

$$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$$



Cilindro parabolico

$$x^2 + 2ay = 0$$

