

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

$$+ + + = 1$$

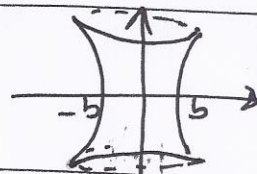
elipsóide



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

$$+ + - = 1$$

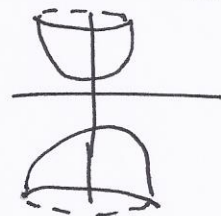
Hiperbolóide
de uma folha



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

$$- - + = 1$$

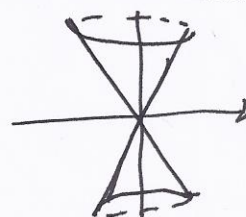
Hiperbolóide
de duas folhas



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

$$+ + - = 0$$

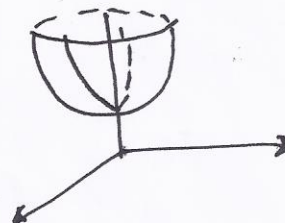
Cone
elíptico



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

$$+ + - = 0$$

Parabolóide
elíptico



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

$$+ - - = 0$$

Parabolóide
hiperbólico

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