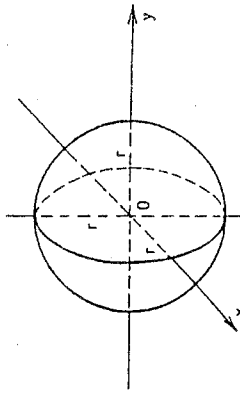
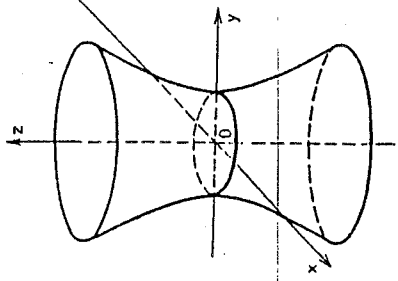


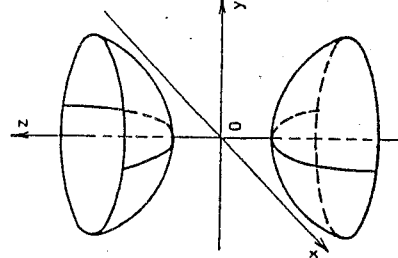
ELIPSOID



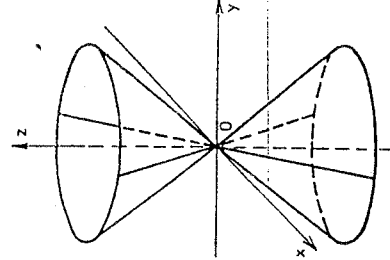
GULOVÁ PLOCHA



JEDNODIELNY HYPERBOLOID

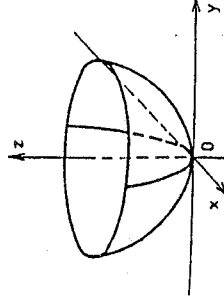


DVOJDIELNY HYPERBOLOID (REÁLNA) KUŽELOVÁ PLOCHA

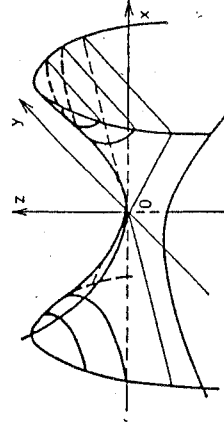


KUŽELOVÁ PLOCHA

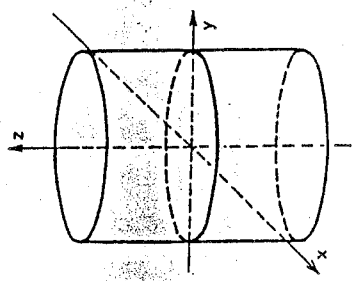
Reálna kuželová plocha



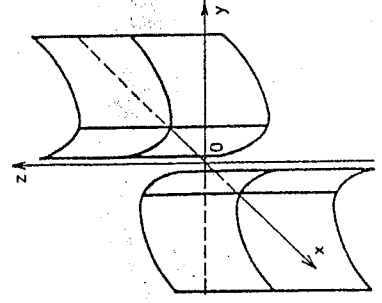
ELIPTICKÝ PARABOLOID



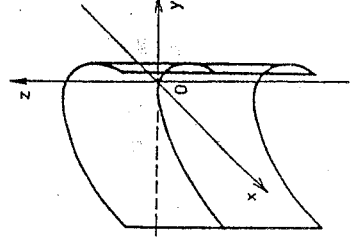
HYPERBOLICKÝ PARABOLOID



ELIPTICKÁ VALCOVÁ PLOCHA



HYPERBOLICKÁ VALCOVÁ PLOCHA



HYPERBOLICKÁ VALCOVÁ PLOCHA

Gulová plocha

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

Stredové plochy

Elipsoid

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

Imaginárna plocha druhého stupňa

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

Jednodielny hyperboloid

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

Dvojdielny hyperboloid

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

Kuželová plocha

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

Imaginárna kuželová plocha

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

Rotácia kuželovej plochy

$$x^2 + y^2 - z^2 \cdot \operatorname{tg} a = 0 \quad (a - \text{polovina vrcholového uhla})$$

Paraboloidy

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

Hyperbolický paraboloid

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

Valcová plocha

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - 1 = 0$$

Eliptická valcová plocha

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} + 1 = 0$$

Imaginárna valcová plocha

Hyperbolická valcová plocha

$$\frac{x^2}{a^2} - \frac{y^2}{b^2} - 1 = 0$$

Parabolická valcová plocha

$$y^2 - 2px = 0$$

Rotácia valcová plocha

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