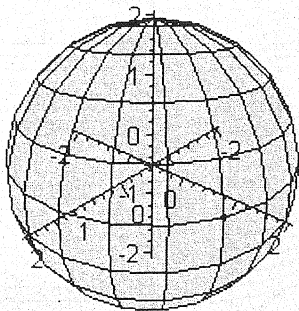


KVADRIKY

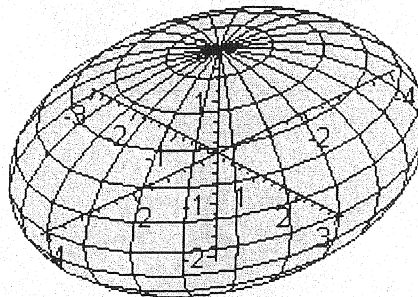
Kulová plocha se středem $S [m, n, p]$ a poloměrem r :

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



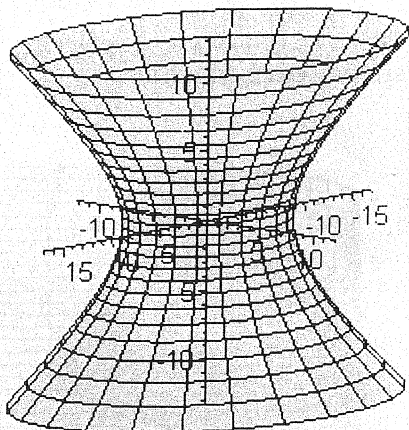
Elipsoid se středem v počátku:

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



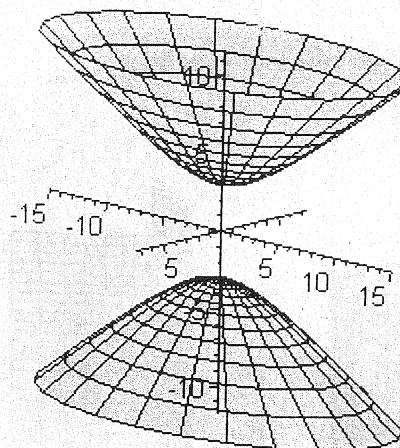
Jednodílný hyperboloid se středem v počátku:

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



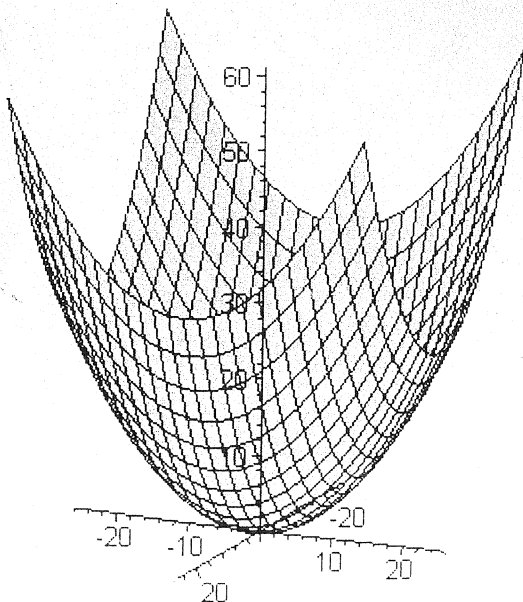
Dvoudílný hyperboloid se středem v počátku:

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



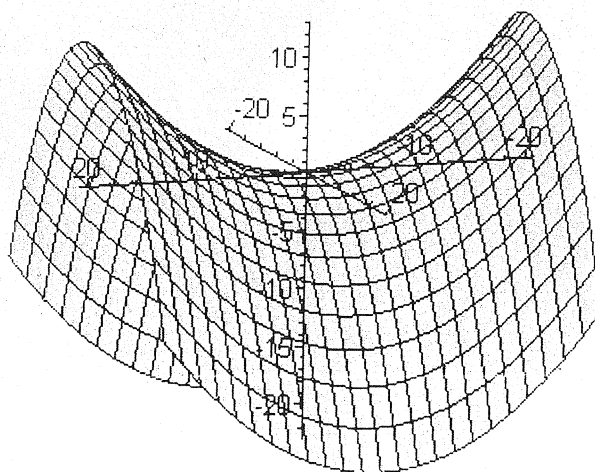
Eliptický paraboloid s vrcholem v počátku:

$$z = \frac{x^2}{2p} + \frac{y^2}{2q}$$



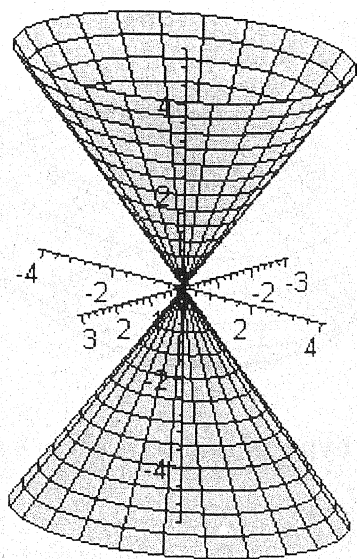
Hyperbolický paraboloid s vrcholem v počátku:

$$z = \frac{x^2}{2p} - \frac{y^2}{2q}$$



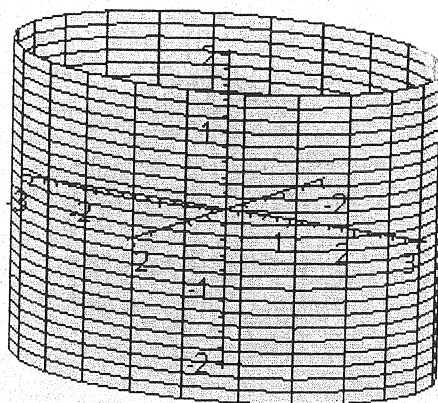
Kuželiová plocha s vrcholem v počátku:

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



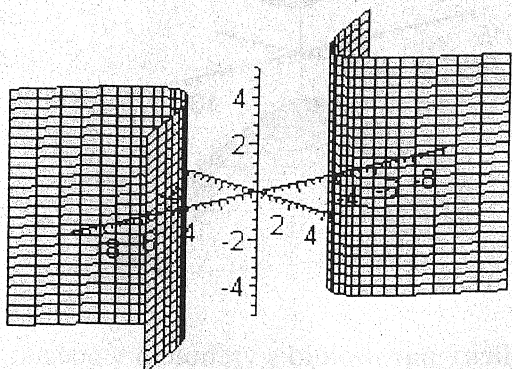
Eliptická válcová plocha:

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



Hyperbolická válcová plocha:

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



Parabolická válcová plocha:

$$y^2 = 2px$$

