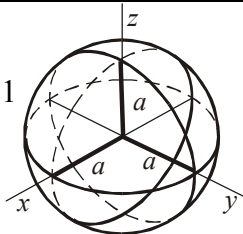


1. Guľová plocha:

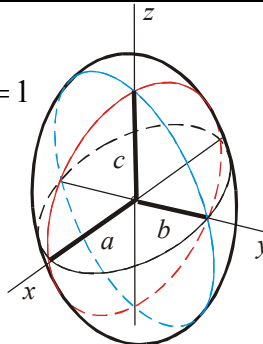
$$\frac{x^2}{a^2} + \frac{y^2}{a^2} + \frac{z^2}{a^2} = 1$$



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

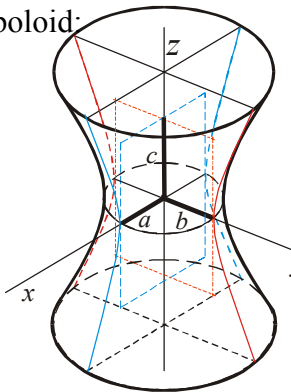
2. Elipsoid:

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



3. Jednodielný hyperboloid:

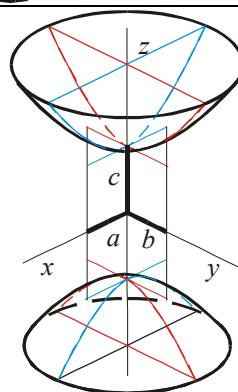
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$$



os z:  
v rovnici pri premennej z  
je znamienko '-'  
Pravá strana rovnice '+1'  
určí typ hyperboloidu:  
jedenodielný

4. Dvojdielný hyperboloid:

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

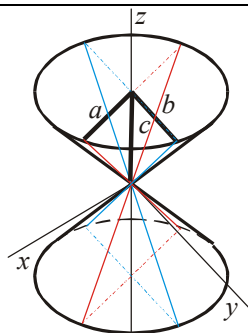


os z:  
v rovnici pri premennej z  
je znamienko '-'  
Pravá strana rovnice '-1'  
určí typ hyperboloidu:  
dvojdielný

5. Kužeľová plocha:

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

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

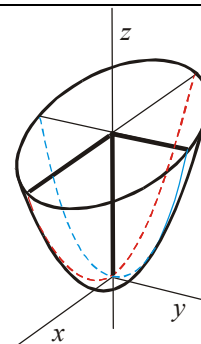


vzhľadom na os z  
v rovnici nie je absolútny člen  
(porovnaj s rovnicou elipsoidu)

6. Eliptický paraboloid:

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

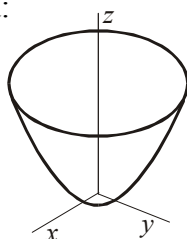
$$\frac{x^2}{p} + \frac{y^2}{q} = 2z$$



os z:  
v rovnici premenná z má  
exponent '1'

7. Rotačný paraboloid:

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

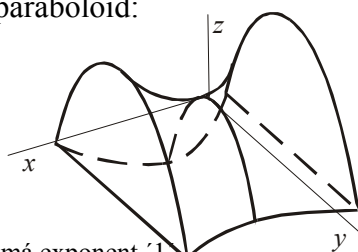


os z:  
v rovnici premenná z má  
exponent '1'

8. Hyperbolický paraboloid:

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

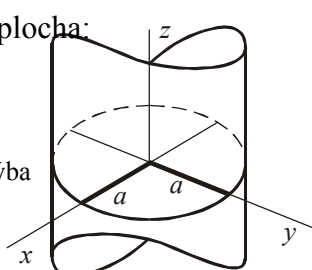
$$\frac{x^2}{p} - \frac{y^2}{q} = 2z$$



os z:  
v rovnici premenná z má exponent '1'

9. Rotačná valcová plocha:

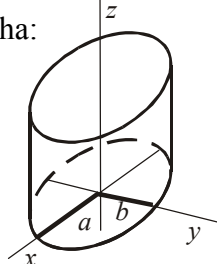
$$x^2 + y^2 = a^2$$



s osou z:  
v rovnici premenná z chýba

10. Eliptická valcová plocha:

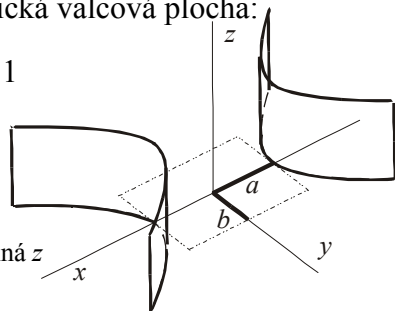
$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$$



s osou z:  
v rovnici premenná z chýba

11. Hyperbolická valcová plocha:

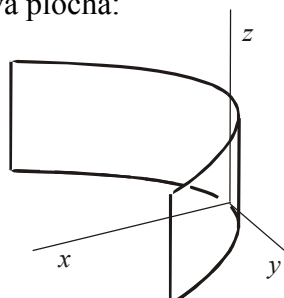
$$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$$



s osou z:  
v rovnici premenná z  
nie je

12. Parabolická valcová plocha:

$$y^2 = 2px$$



s osou z:  
v rovnici premenná z nie je

