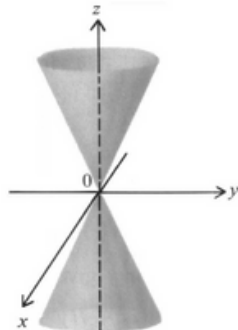
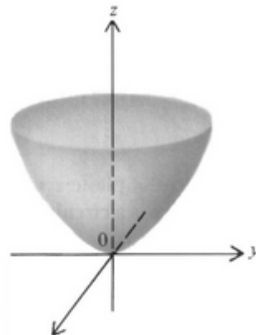


## WYKRESY PRZYKŁADOWYCH POWIERZCHNI



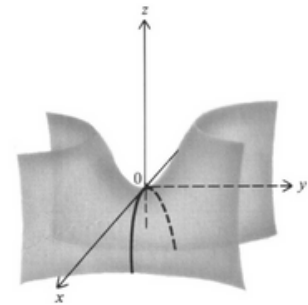
**STOŻEK ELIPTYCZNY**

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



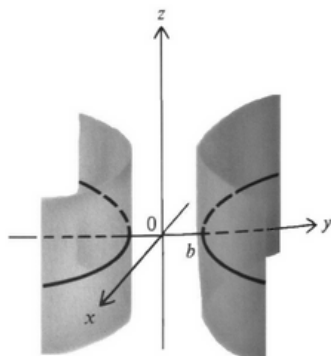
**PARABOLOIDA ELIPTYCZNA**

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



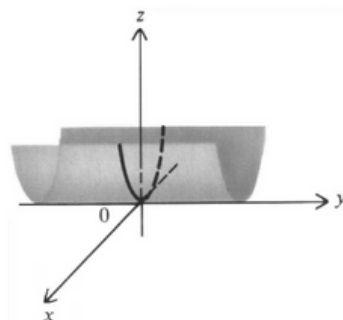
**PARABOLOIDA HIPERBOLICZNA**

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



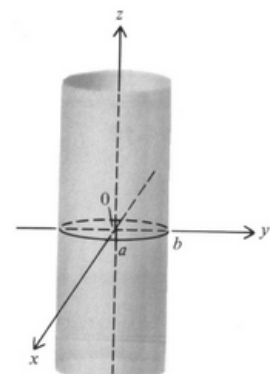
**WAŁEC HIPERBOLICZNY**

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



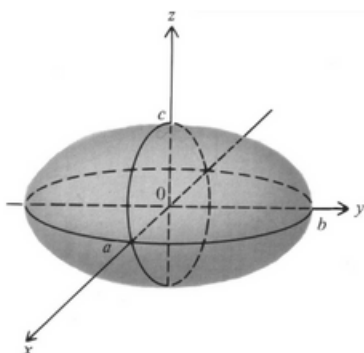
**WAŁEC PARABOLICZNY**

$$z = ax^2$$



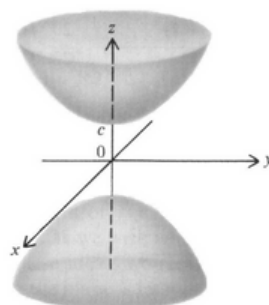
**WAŁEC ELIPTYCZNY**

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



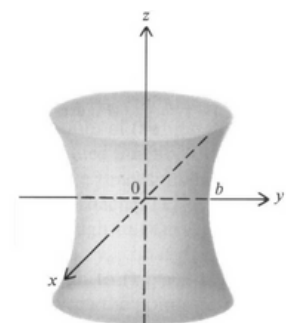
**ELIPSOIDA TRÓJOSIOWA**

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



**HIPERBOLOIDA DWUPOWŁOKOWA**

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



**HIPERBOLOIDA JEDNPOWŁOKOWA**

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