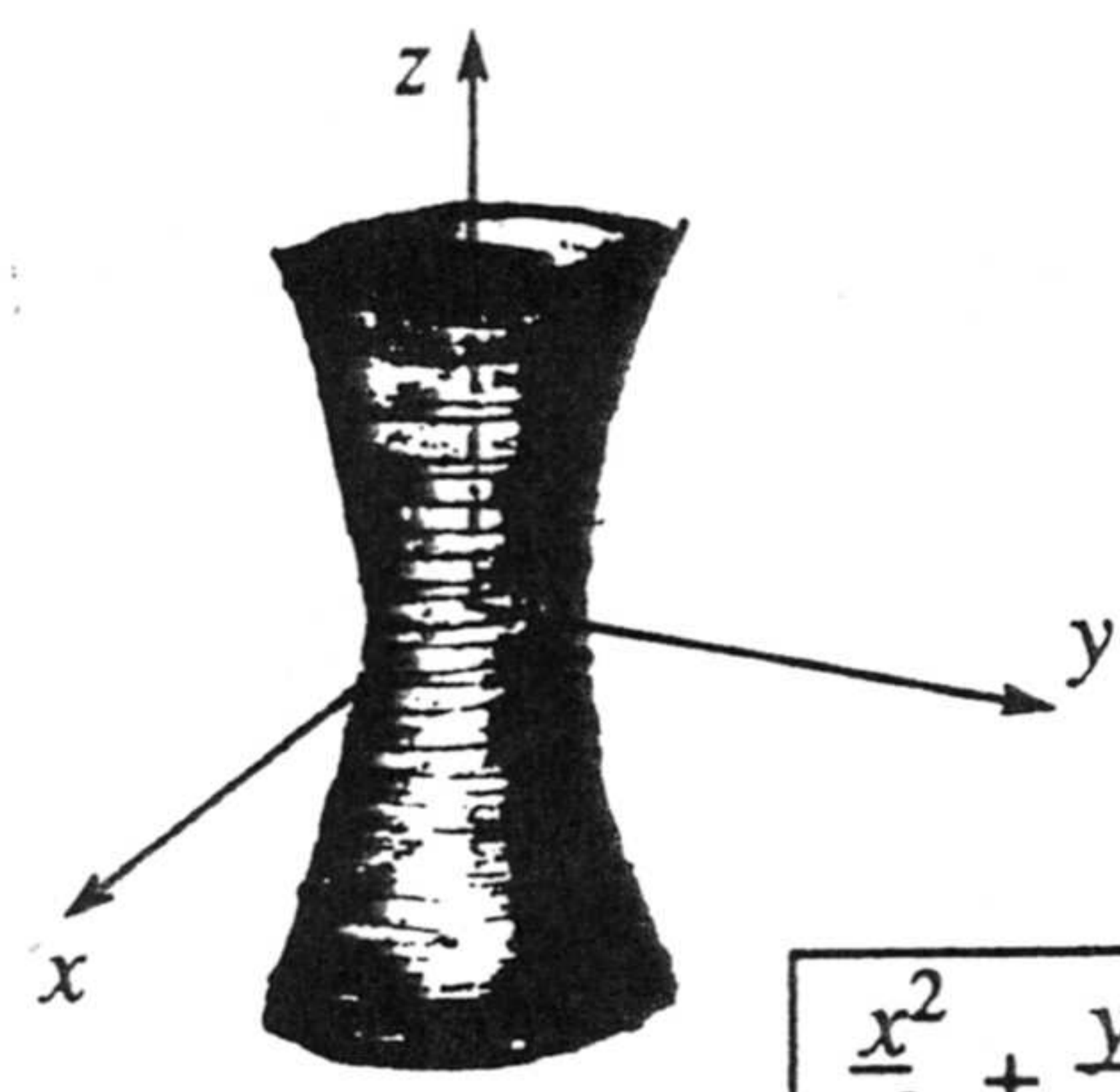


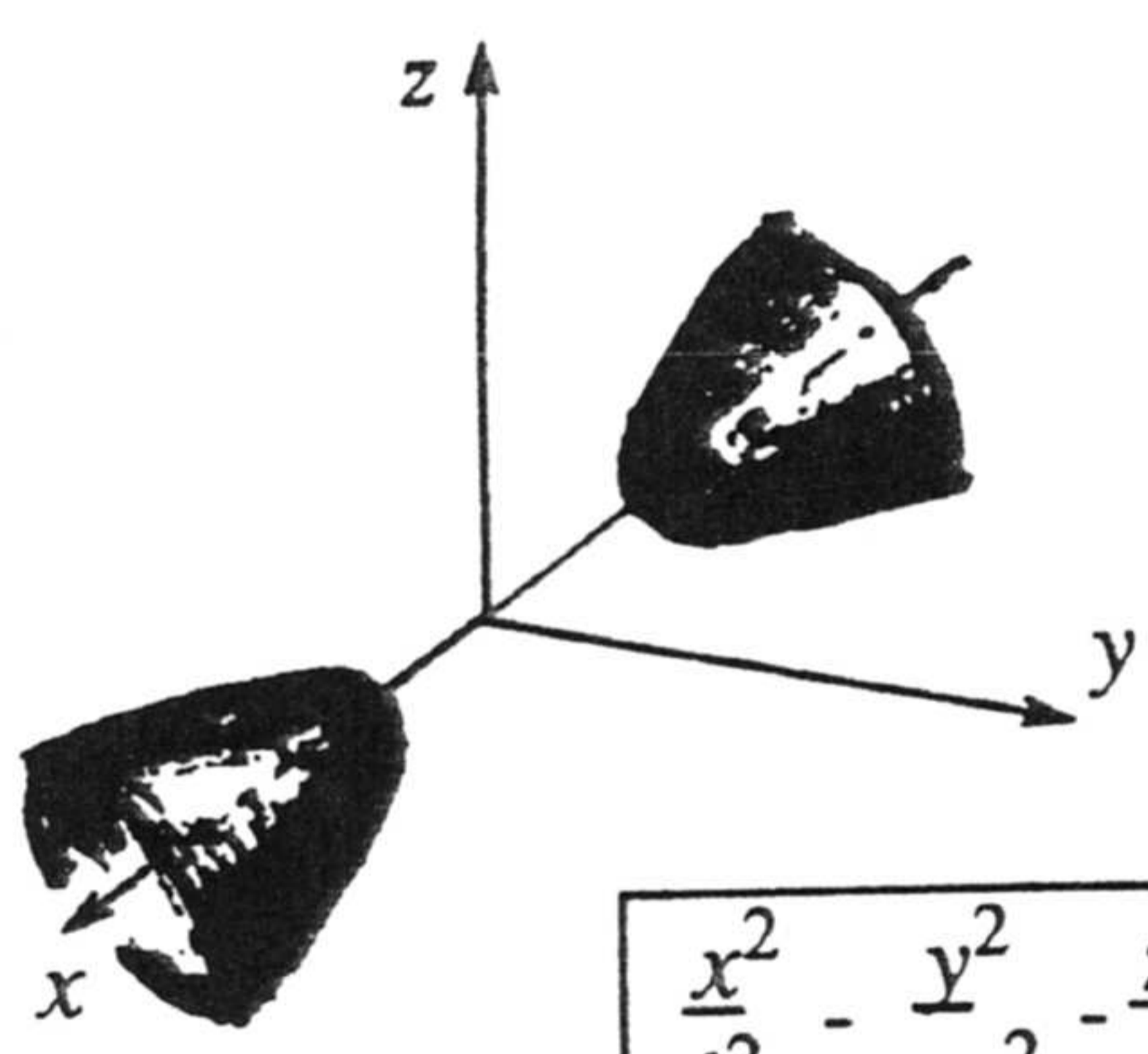
$$\frac{x^2}{l^2} + \frac{y^2}{m^2} + \frac{z^2}{n^2} = 1$$

Ellipsoid



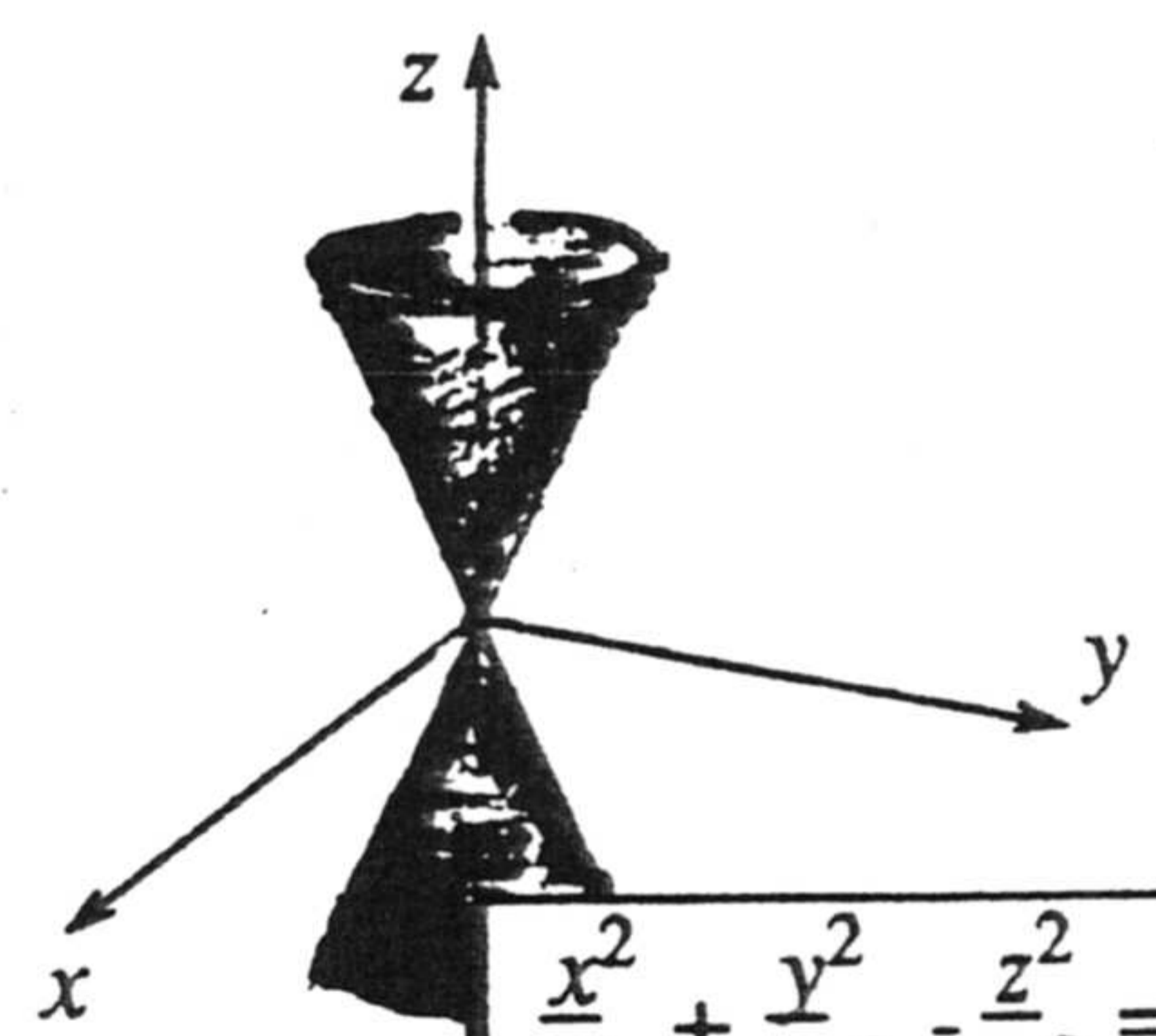
$$\frac{x^2}{l^2} + \frac{y^2}{m^2} - \frac{z^2}{n^2} = 1$$

Hyperboloid of one sheet



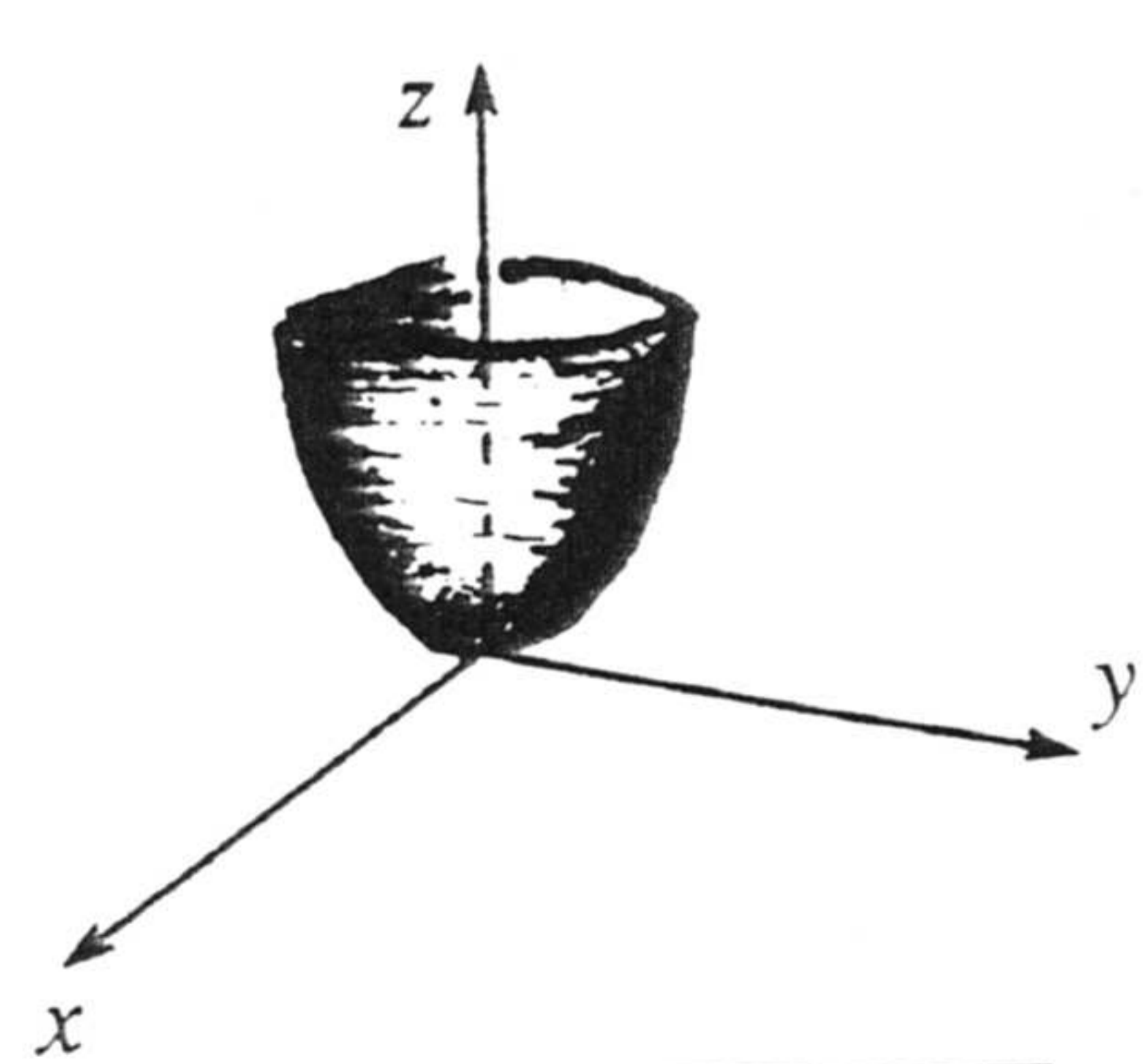
$$\frac{x^2}{l^2} - \frac{y^2}{m^2} - \frac{z^2}{n^2} = 1$$

Hyperboloid of two sheets



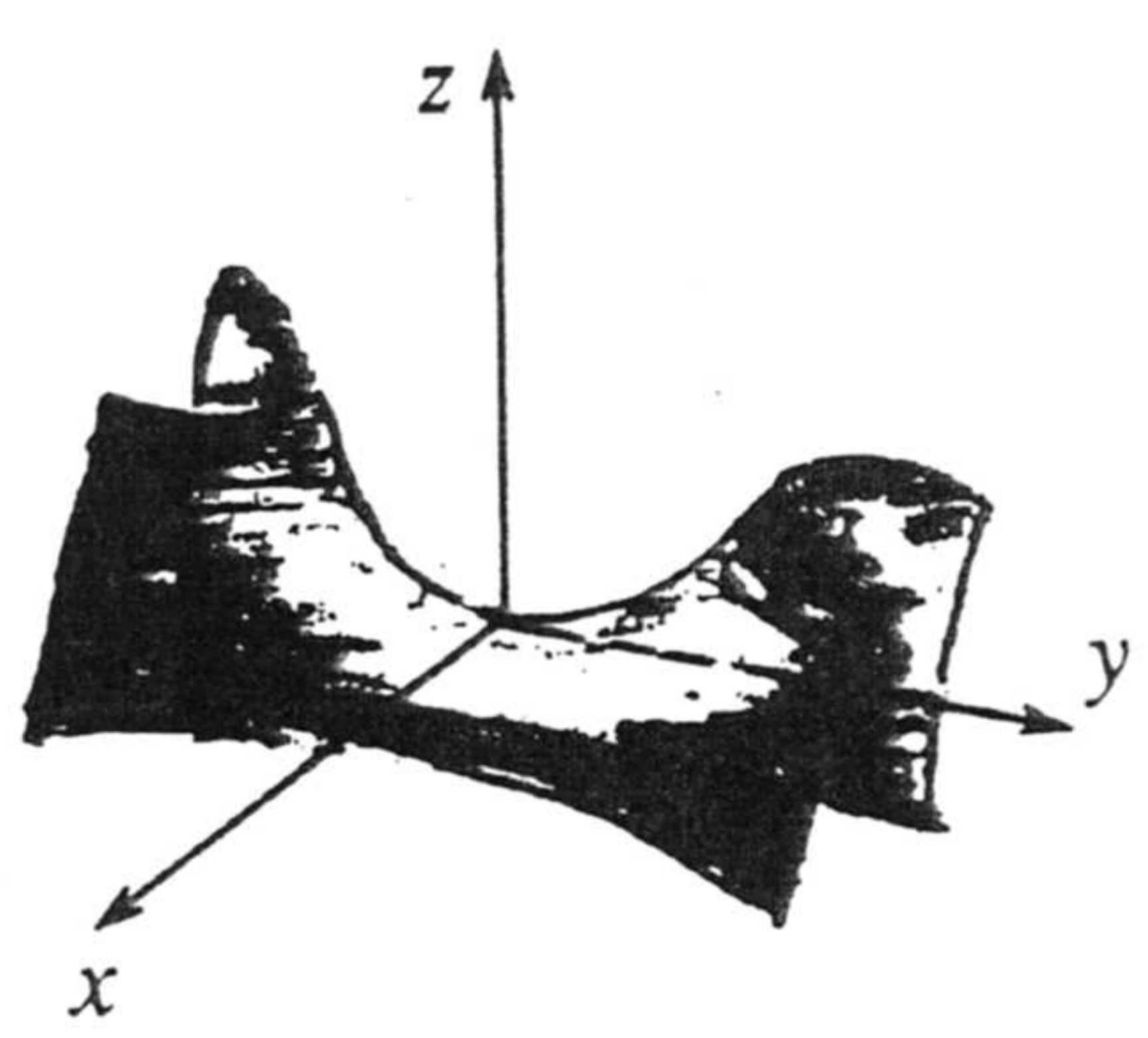
$$\frac{x^2}{l^2} + \frac{y^2}{m^2} - \frac{z^2}{n^2} = 0$$

Elliptic Cone



$$\frac{x^2}{l^2} + \frac{y^2}{m^2} - z = 0$$

Elliptic Paraboloid



$$\frac{x^2}{l^2} - \frac{y^2}{m^2} + z = 0$$

Hyperbolic Paraboloid

Figure 2. Various quadric surfaces