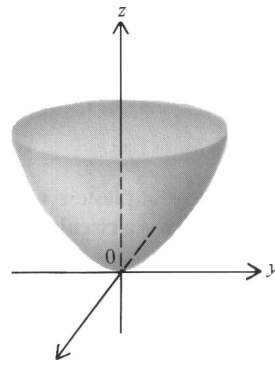


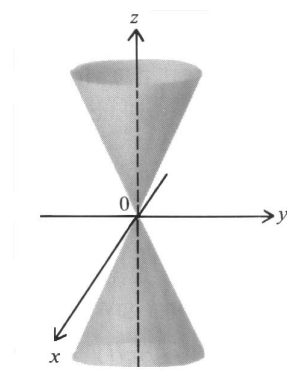
ELLIPSOID

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



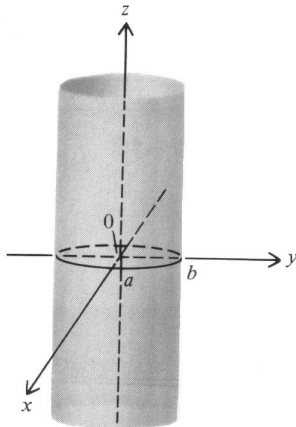
ELLIPTIC PARABOLOID

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



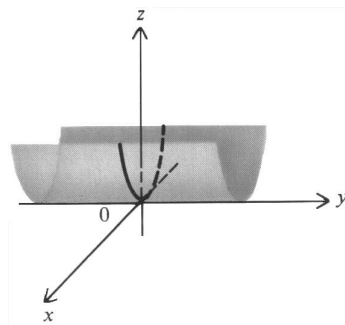
ELLIPTIC CONE

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



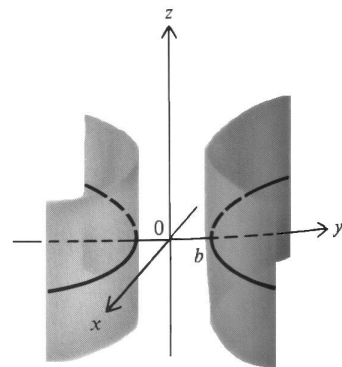
ELLIPTIC CYLINDER

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



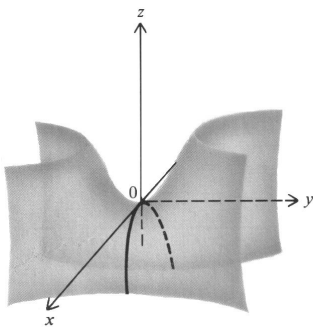
PARABOLIC CYLINDER

$$z = ax^2$$



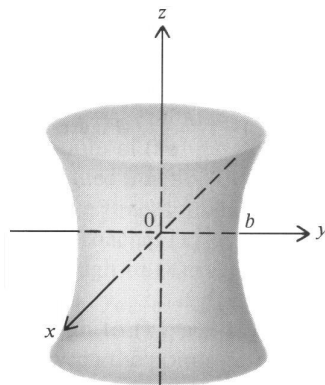
HYPERBOLIC CYLINDER

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



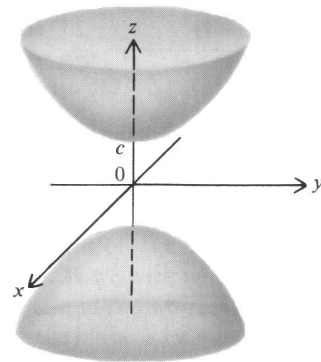
HYPERBOLIC PARABOLOID

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



HYPERBOLOID OF ONE SHEET

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



HYPERBOLOID OF TWO SHEETS

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