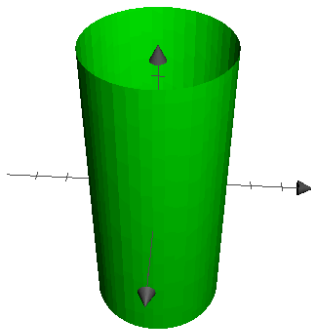


1 Quadric Surfaces

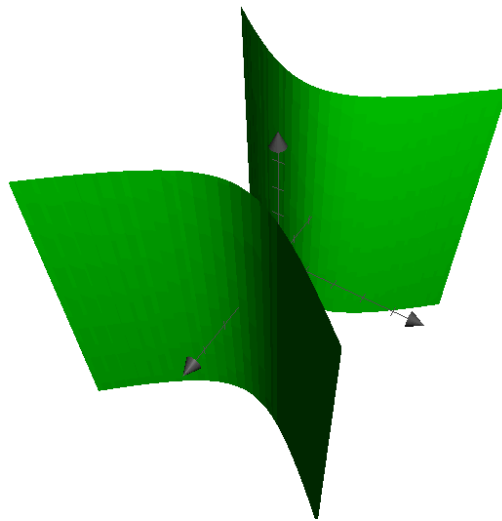
1.1 Elliptic Cylinder

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

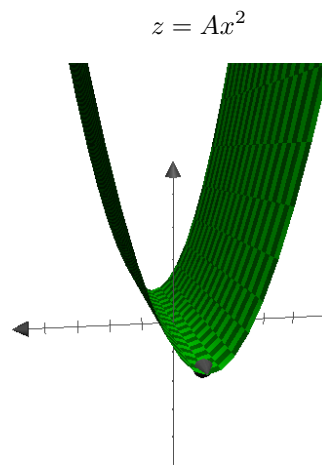


1.2 Hyperbolic Cylinder

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

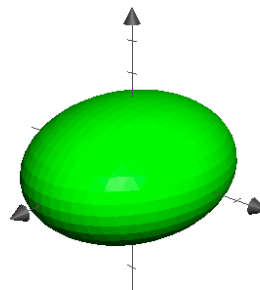


1.3 Parabolic Cylinder



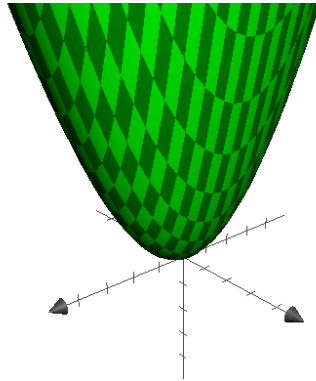
1.4 Ellipsoid

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



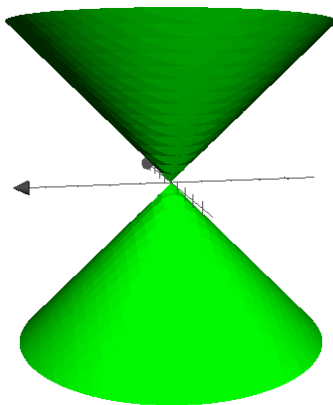
1.5 Parabaloid

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



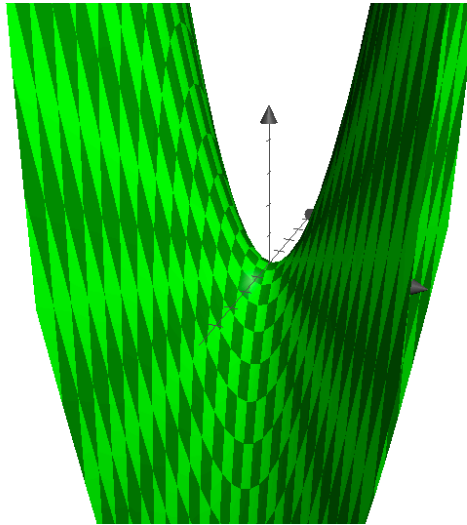
1.6 Elliptic Cone

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



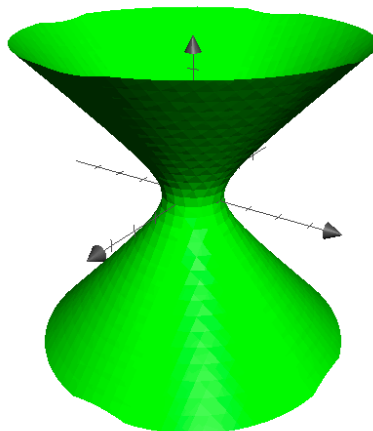
1.7 Hyperbolic Paraboloid

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



1.8 Elliptic Paraboloid of One Sheet

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



1.9 Elliptic Paraboloid of Two Sheets

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

