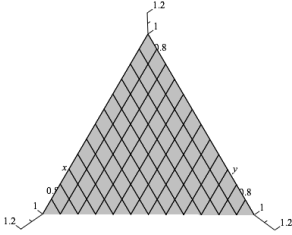
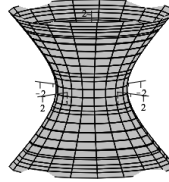


Quadratic Surfaces

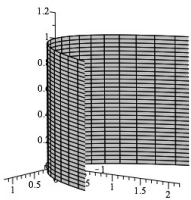
1. Plane $ax + by + cz = d$



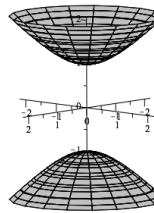
6. Hyperboloid 1 sheet $\frac{x^2}{a^2} + \frac{y^2}{b^2} - \frac{z^2}{c^2} = 1$



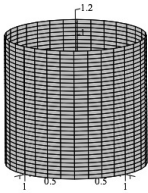
2. Parabolic cylinder $y = ax^2$



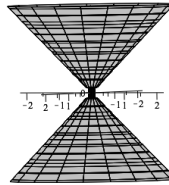
7. Hyperboloid 2 sheet $-\frac{x^2}{a^2} - \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$



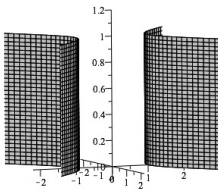
3. Elliptic cylinder $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$



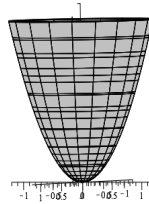
8. Cone $\frac{x^2}{a^2} + \frac{y^2}{b^2} = \frac{z^2}{c^2}$



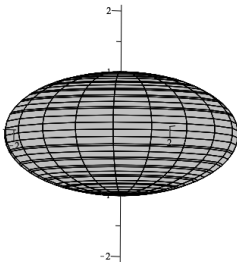
4. Hyperbolic cylinder $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$



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



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



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

