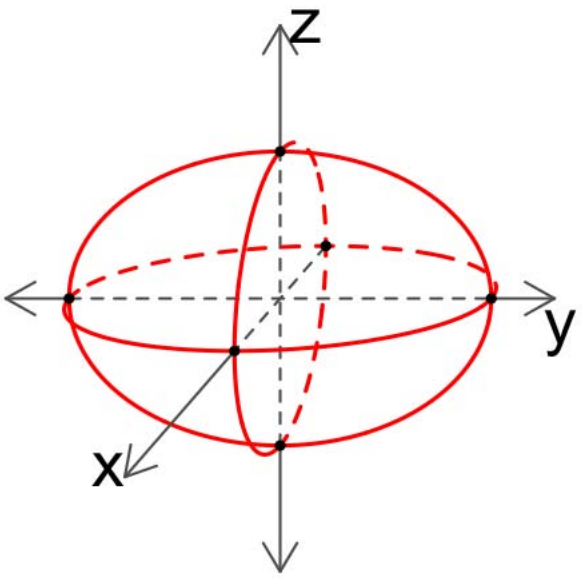
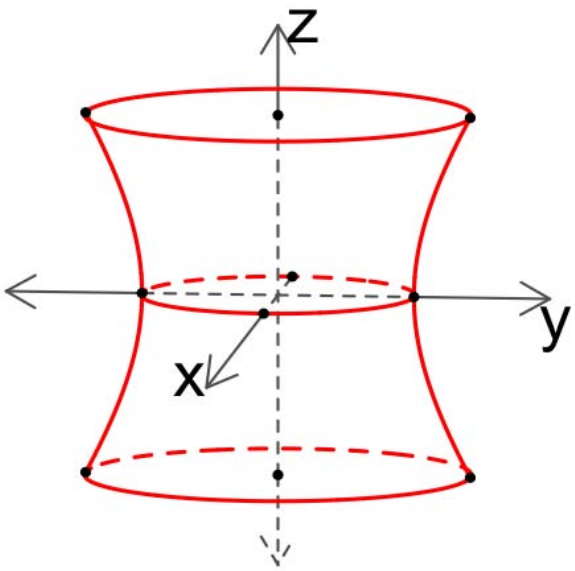
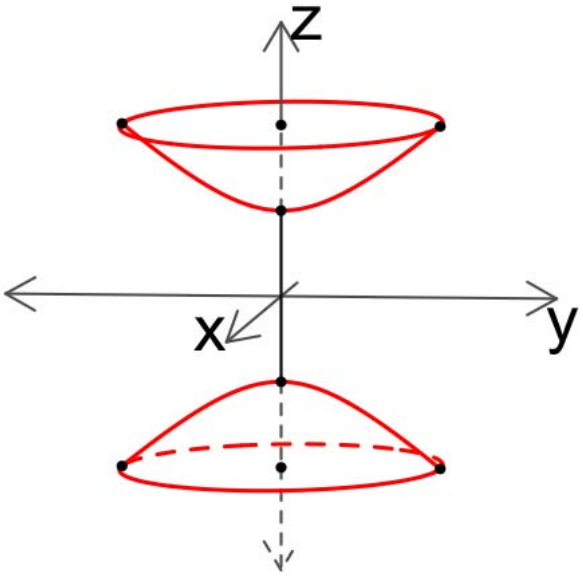
Gallery of graphs



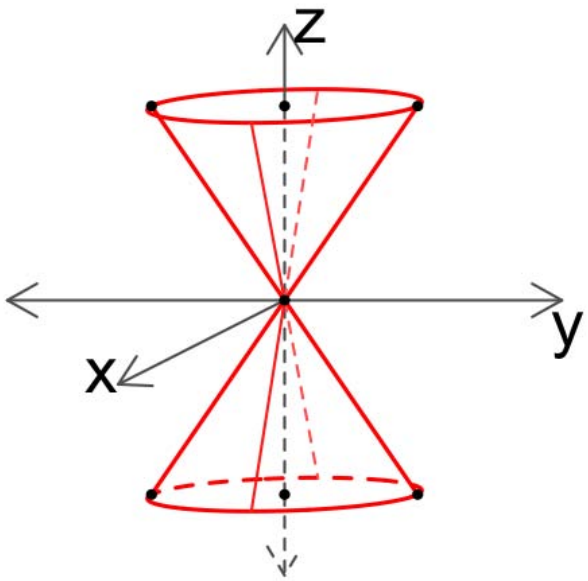
Ellipsoid: $\dfrac{x^2}{a^2}+\dfrac{y^2}{b^2}+\dfrac{z^2}{c^2}=1$



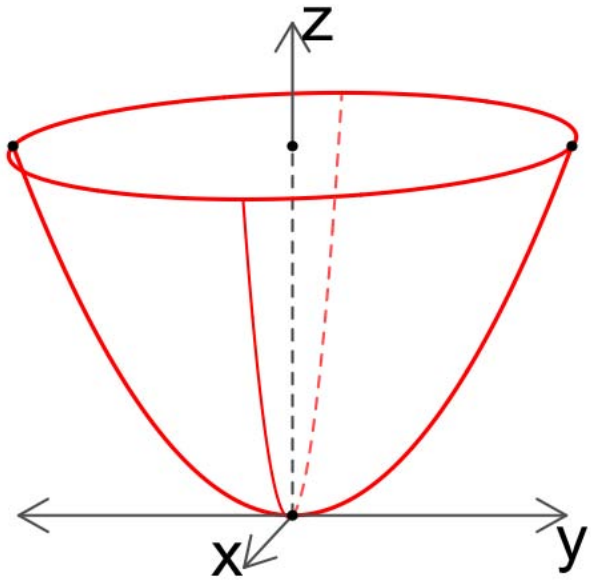
Hyperboloid of one sheet:
$\dfrac{x^2}{a^2}+\dfrac{y^2}{b^2}-\dfrac{z^2}{c^2}=1$



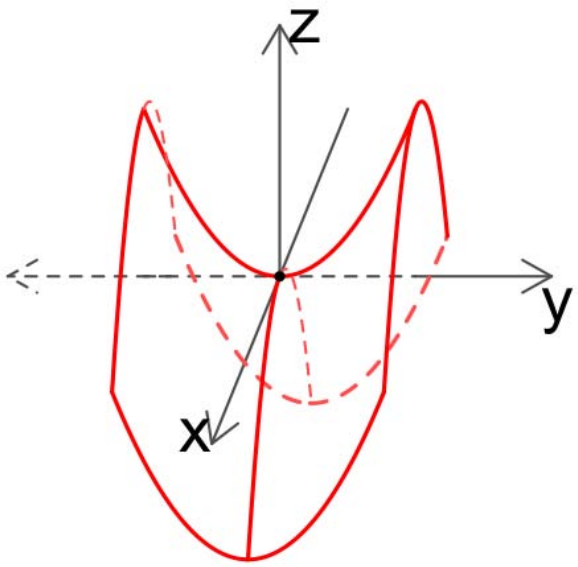
Hyperboloid of two sheets:
$\dfrac{x^2}{a^2}+\dfrac{y^2}{b^2}-\dfrac{z^2}{c^2}=-1$



Elliptic cone: $\dfrac{x^2}{a^2}+\dfrac{y^2}{b^2}=\dfrac{z^2}{c^2}$



Elliptic paraboloid: $z = ax^2 + by^2$



Hyperbolic paraboloid: $z = by^2 - ax^2$

18.02SC Multivariable Calculus
Fall 2010