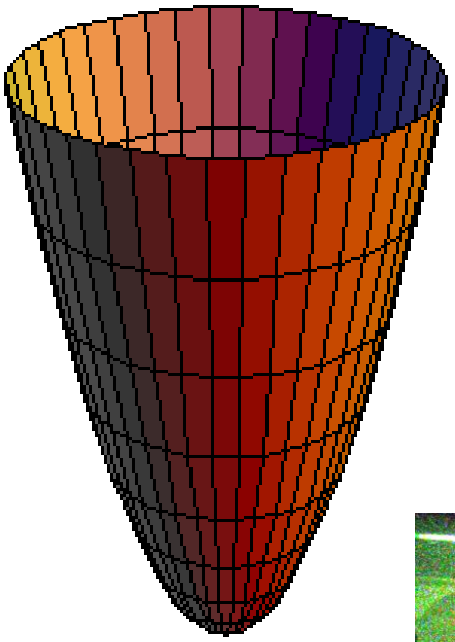
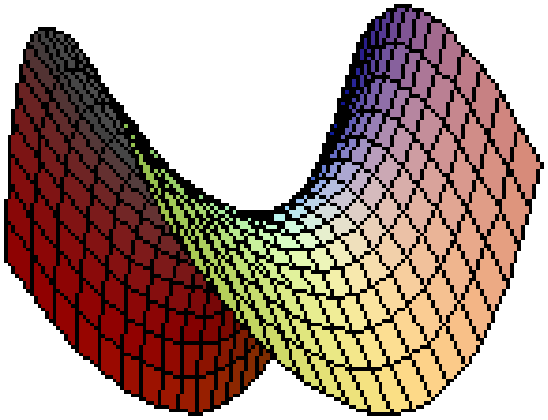
http://mathworld.wolfram.com/Paraboloid.html

Paraboloide ellittico.



$$Z = \frac{X^2}{a^2} + \frac{Y^2}{b^2}$$



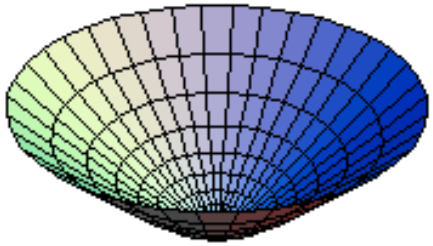
$$Z = \frac{X^2}{a^2} - \frac{Y^2}{b^2}$$

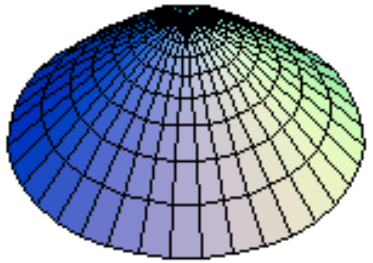
http://mathworld.wolfram.com/HyperbolicParaboloid.html

Paraboloide iperbolico.

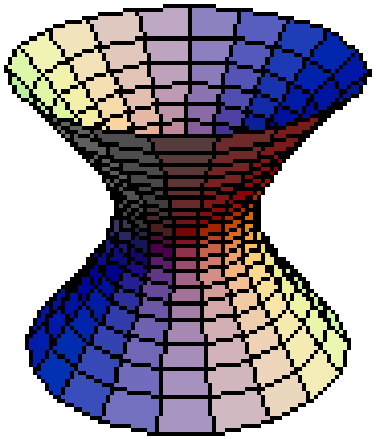
$$\frac{X^2}{a^2} + \frac{Y^2}{b^2} - \frac{Z^2}{c^2} = -1$$

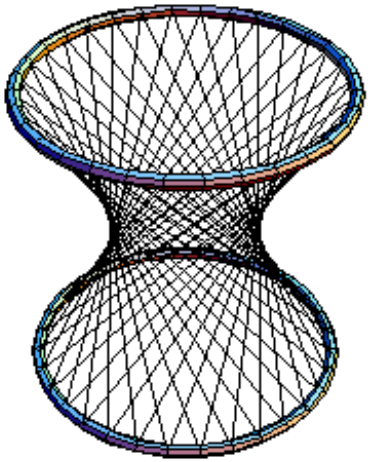
Iperboloide ellittico.





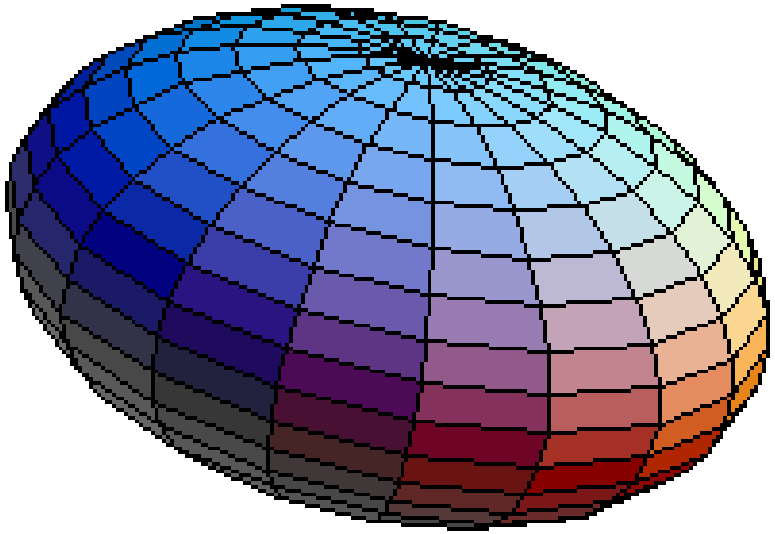
http://mathworld.wolfram.com/Hyperboloid.html





Iperboloide iperbolico.

$$\frac{X^2}{a^2} + \frac{Y^2}{b^2} - \frac{Z^2}{c^2} = 1$$



http://mathworld.wolfram.com/Ellipsoid.html

Ellissoide reale. $$\frac{X^2}{a^2}+\frac{Y^2}{b^2}+\frac{Z^2}{c^2}=1$$

Ellissoide immaginario.

$$\frac{X^2}{a^2} + \frac{Y^2}{b^2} + \frac{Z^2}{c^2} = -1$$