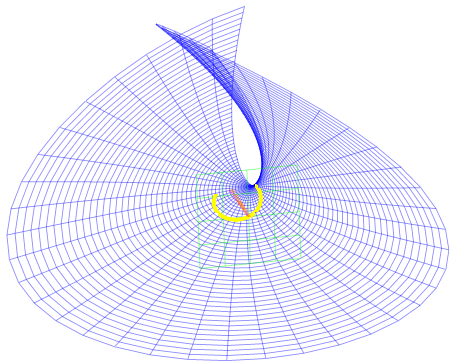


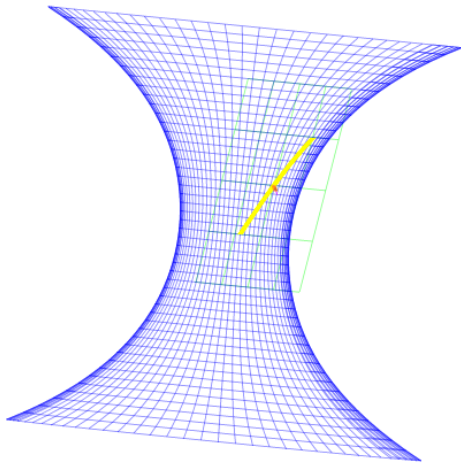
Bour's minimal surface

$$\left[v \cos(u) - \frac{v^2}{2} \cos(2u), -v \sin(u) - \frac{v^2}{2} \sin(2u), \frac{4}{3} v^{3/2} \cos\left(\frac{3}{2}u\right) \right]$$



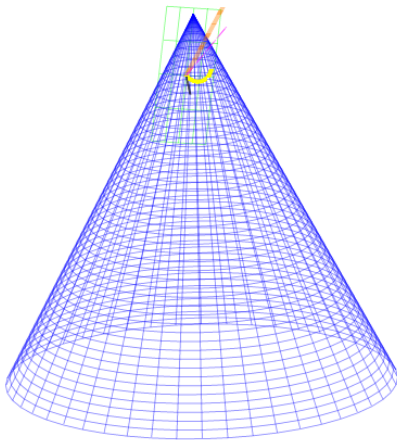
catenoid

$$g := (u, v) \rightarrow [\cosh(u) * \cos(v), \cosh(u) * \sin(v), u];$$



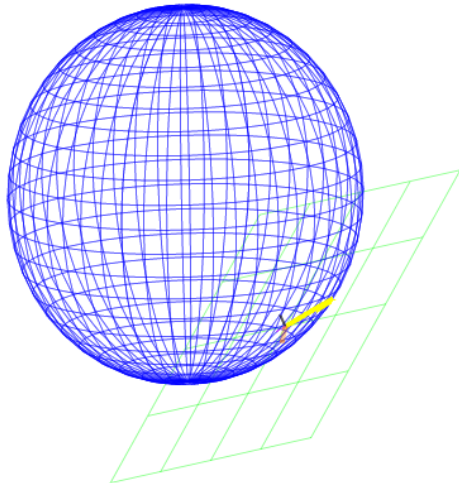
cone

$g := (u, v) \rightarrow [v \cdot \cos(u), v \cdot \sin(u), v];$



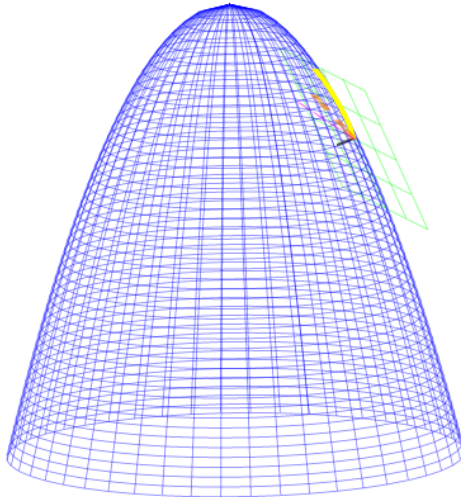
ellipsoid

$$[4 * \cos(u) * \sin(v), 4 * \sin(u) * \sin(v), 3 * \cos(v)]$$



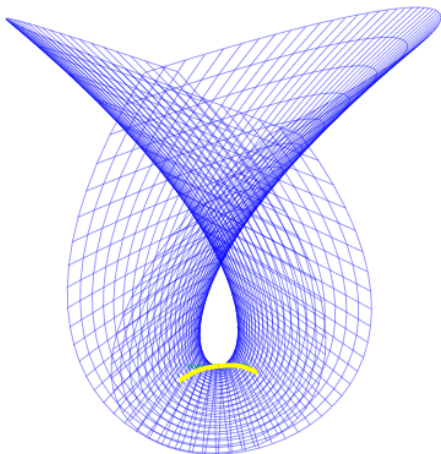
elliptic paraboloid

$g := (u, v) \rightarrow [\text{sqrt}(u) * \cos(v), \text{sqrt}(u) * \sin(v), u];$



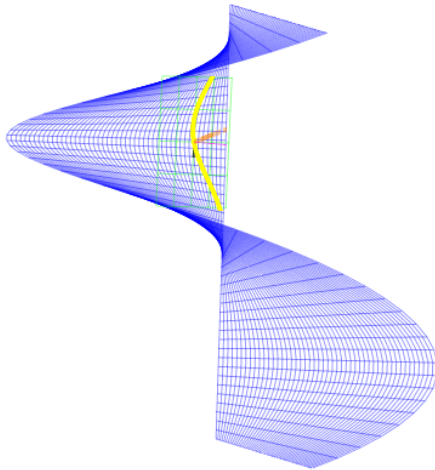
Enneper's surface

$$[u - \frac{u^3}{3} + u \cdot v^2, v - \frac{v^3}{3} + v \cdot u^2, u^2 - v^2]$$



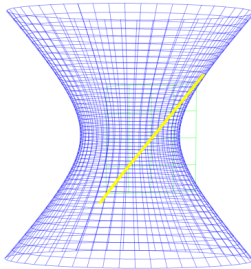
helicoid

$g := (u, v) \rightarrow [v \cdot \cos(u), v \cdot \sin(u), u];$



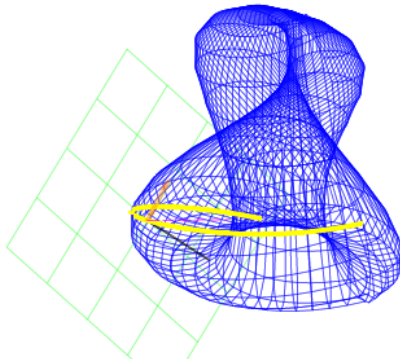
hyperboloid

$$[\cosh(u) \cdot \cos(v), \cosh(u) \cdot \sin(v), \sinh(u)]$$



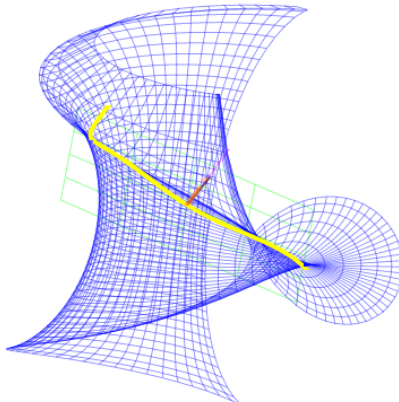
Klein bottle

```
[cos(u) * (cos(u/2) * (sqrt(2) + cos(v))  
+sin(u/2) * sin(v) * cos(v)),  
sin(u) * (cos(u/2) * (sqrt(2)  
+cos(v)) + sin(u/2) * sin(v) * cos(v)),  
-sin(u/2) * (sqrt(2) + cos(v)) + cos(u/2) * sin(v) * cos(v)]
```



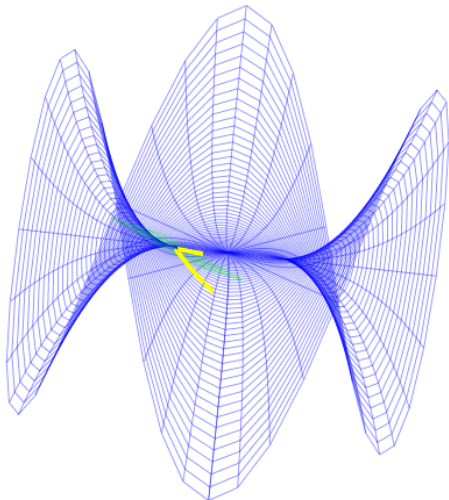
Kuen's surface

$$\left[\begin{aligned} &2 * (\cos(u) + u * \sin(u)) * \sin(v) / (1 + u^2 * \sin(v)^2), \\ &2 * (\sin(u) - u * \cos(u)) * \sin(v) / (1 + u^2 * \sin(v)^2), \\ &\ln(\tan(v/2)) + 2 * \cos(v) / (1 + u^2 * \sin(v)^2) \end{aligned} \right]$$



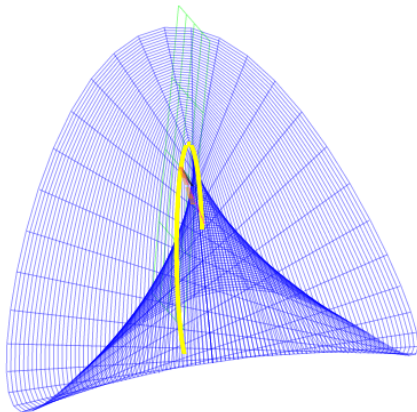
monkey saddle

```
g := (u,v) -> [u*cos(v), u*sin(v), u^3*cos(3*v)];
```



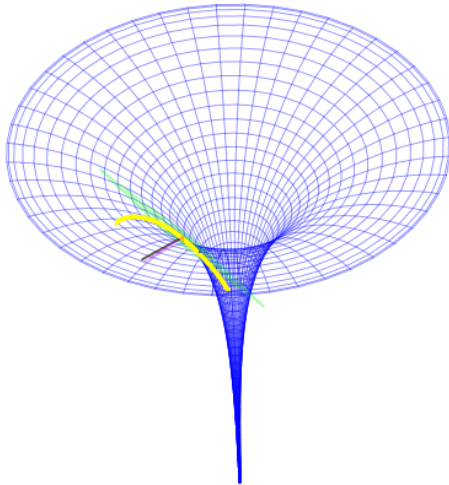
Plücker's conoid

$$g := (u, v) \rightarrow [v \cdot \cos(u), v \cdot \sin(u), 2 \cdot \cos(u) \cdot \sin(u)];$$



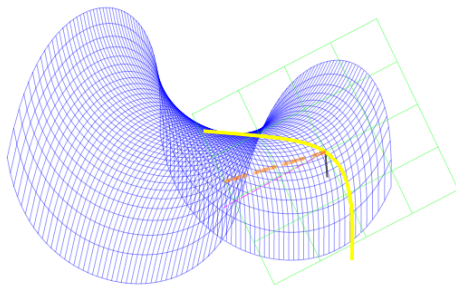
pseudosphere

$[\operatorname{sech}(u) \cdot \cos(v), \operatorname{sech}(u) \cdot \sin(v), u - \tanh(u)]$



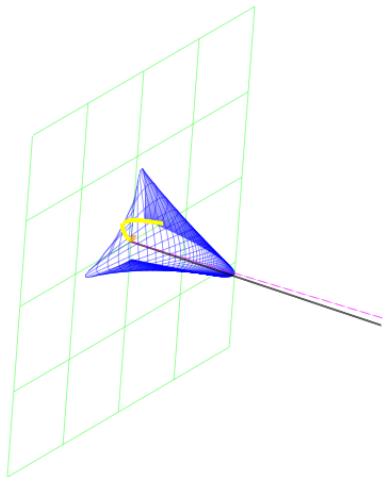
Scherk's surface

$g := (u, v) \rightarrow [u, v, \ln(\cos(v)/\cos(u))];$



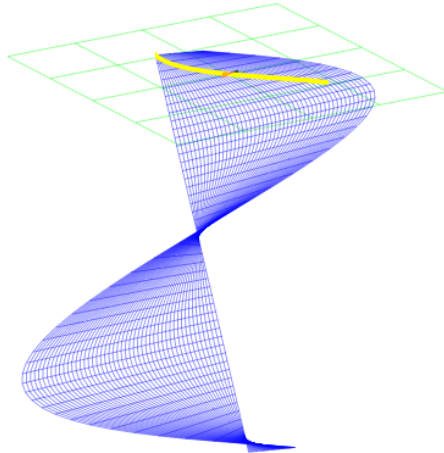
Steiner surface

$$\left[\frac{u}{1+u^2+v^2}, \frac{v}{1+u^2+v^2}, \frac{u \cdot v}{1+u^2+v^2} \right]$$



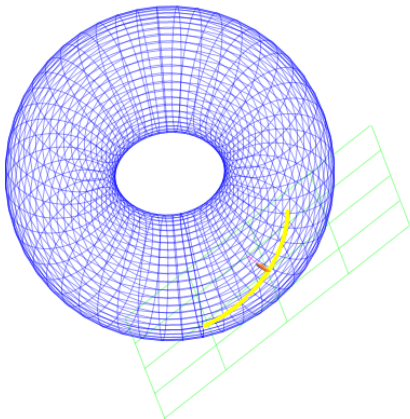
strake

```
g := (u, v) -> [v*cos(u), v*sin(u), 30/(2*Pi)*u];
```



torus

$$[(2+\cos(u))\cos(v), (2+\cos(u))\sin(v), \sin(u)]$$



Whitney's umbrella

$$g := (u, v) \rightarrow [u+v, u, v^2];$$

