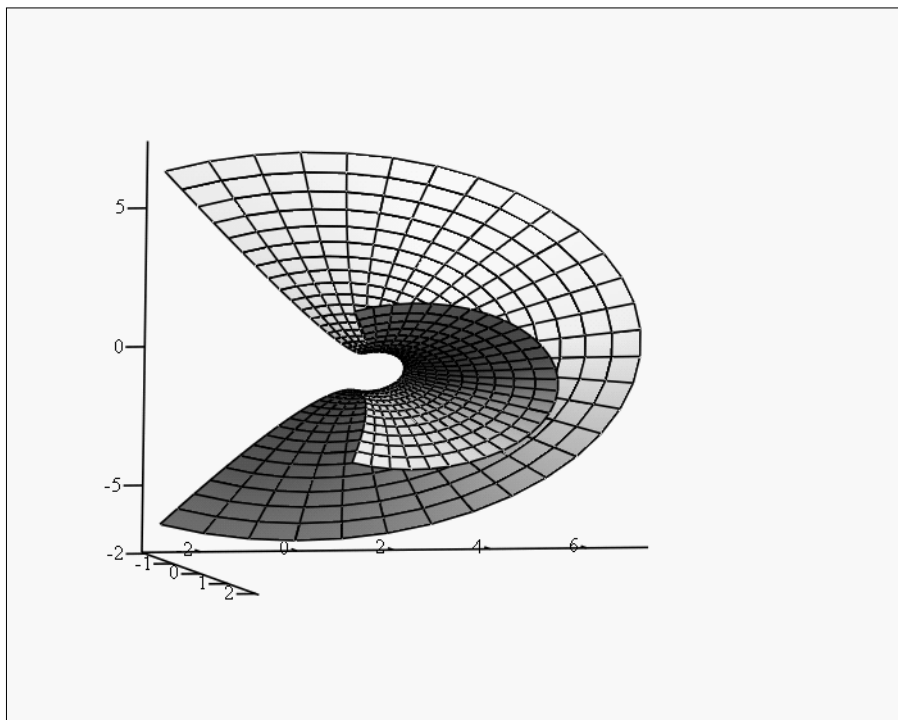


Mathcad2000 - En 3D graf.

$m := 30$ $a := -2$ $b := 2$ $c := -2$ $d := 2$
 $p(u) := u^2 - u + 1$
 $F(u, v) := u$ $G(u, v) := p(u) \cdot \cos(v)$ $H(u, v) := p(u) \cdot \sin(v)$
 $S := \text{CreateMesh}(F, G, H, a, b, c, d, m)$



S

Grafen over et rotasjonslegeme, der $p(u)$ grafen er rotert om u -aksen.

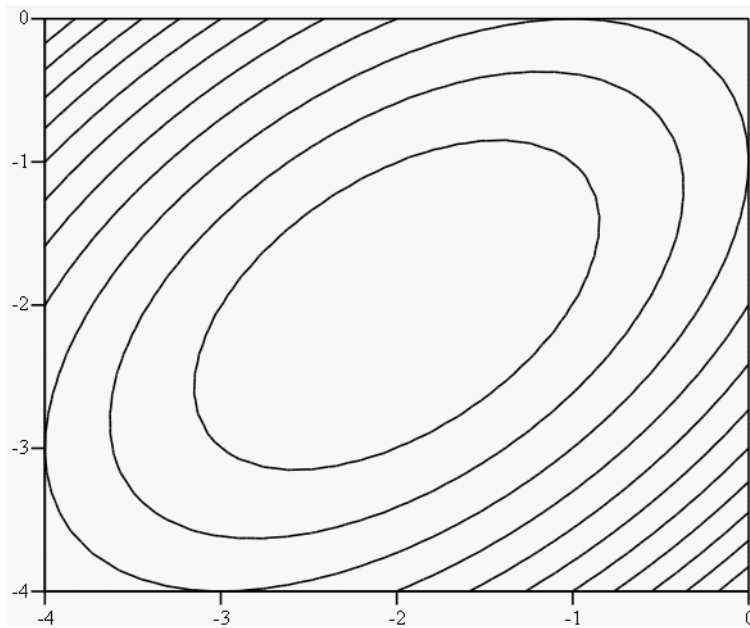
$$f(x,y) := x \cdot y - x^2 - y^2 - 2 \cdot x - 2 \cdot y + 2$$

$$X(x,y) := x$$

$$Y(x,y) := y$$

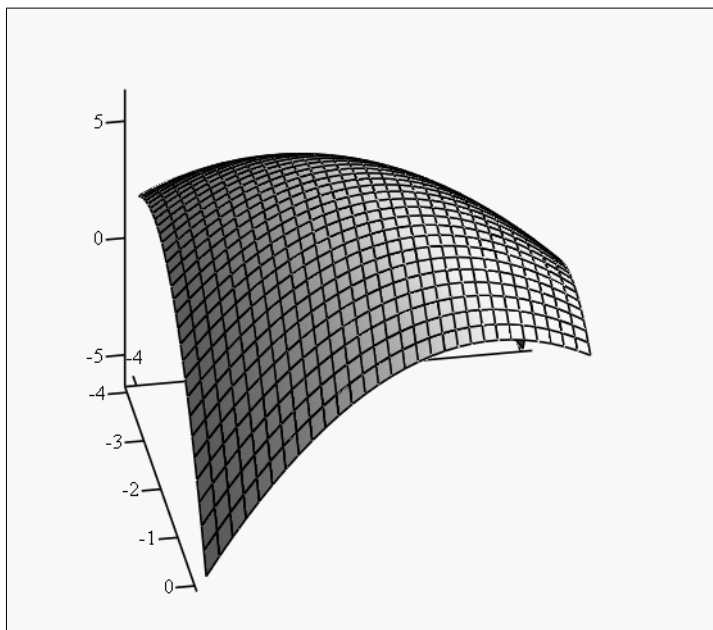
$$Z(x,y) := f(x,y)$$

$$M := \text{CreateMesh}(X, Y, Z, -4, 0, -4, 0, m)$$



Nivå-kurvene til $f(x,y)$ ser slik ut:
- som ringer i vann ut fra punktet $(-2,-2)$.

M



Grafen til $f(x,y)$ ser ut som følger:

M