Verstehen und Optimieren in 3D

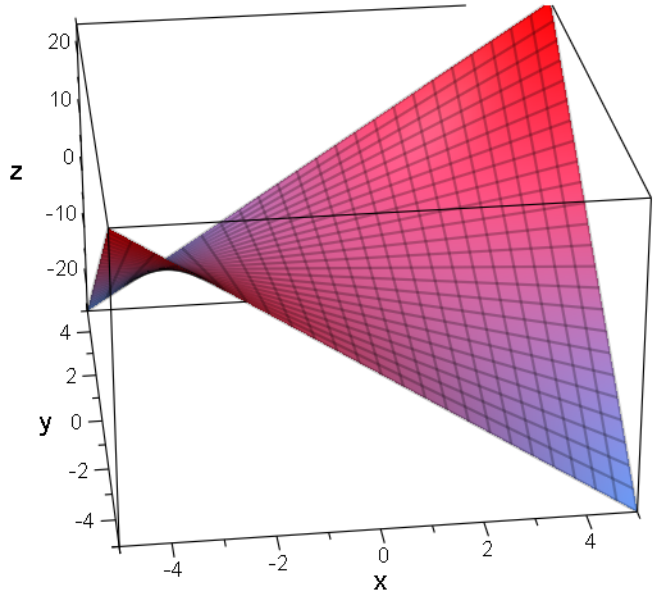
Mathematik mit MuPAD 4, Prof. Dr. Dörte Haftendorn Nov 07 Update Nov 07

http://haftendorn.uni-lueneburg.de www.mathematik-verstehen.de

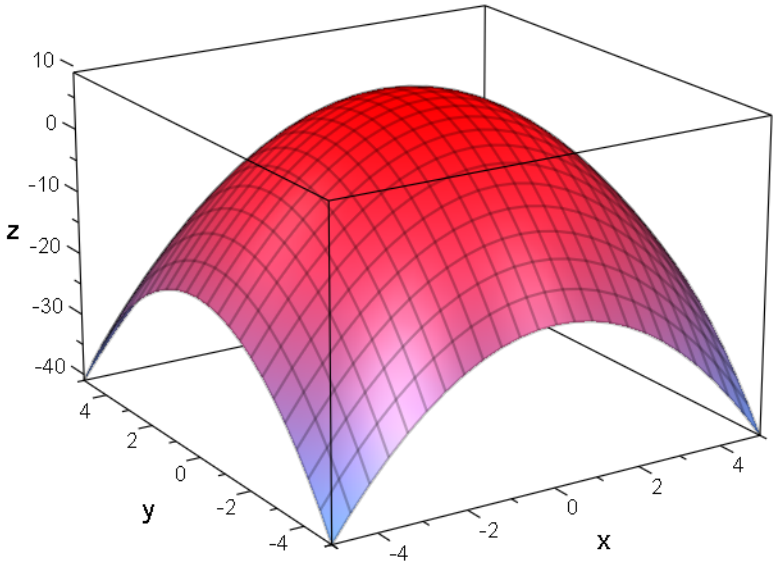
##

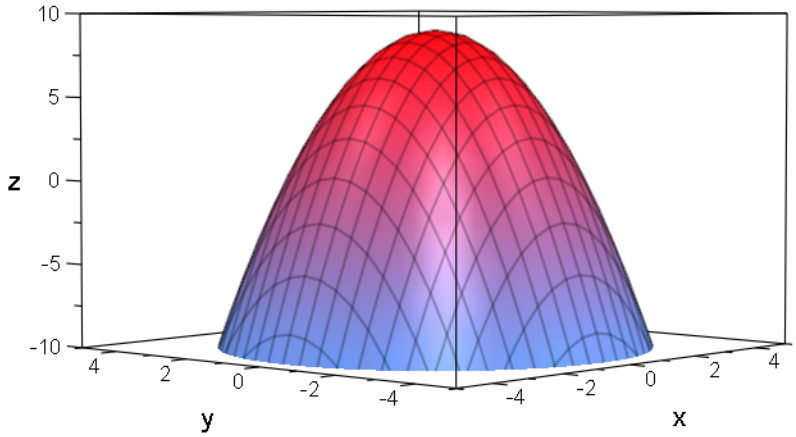
Elemente aus hut3d, sehnenviereck,....

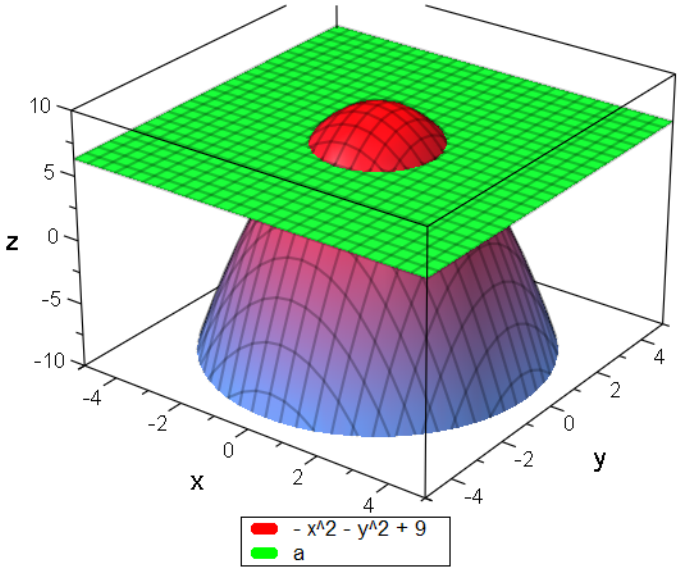
```
plotfunc3d(y*x)
```

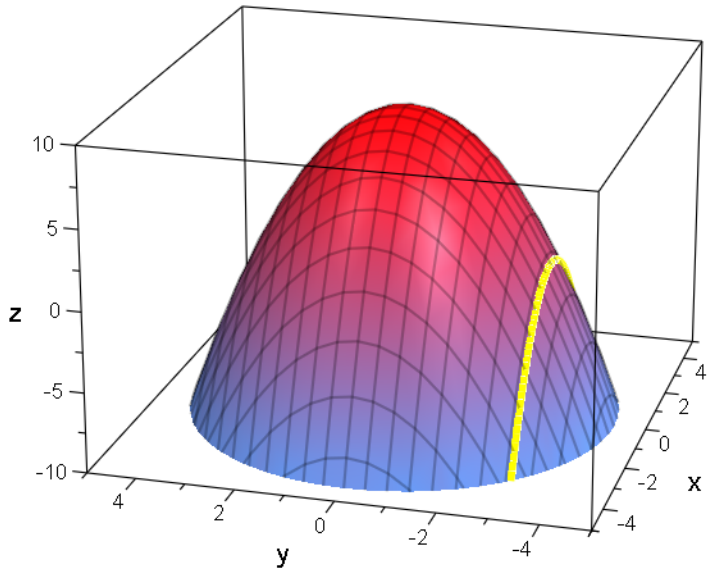


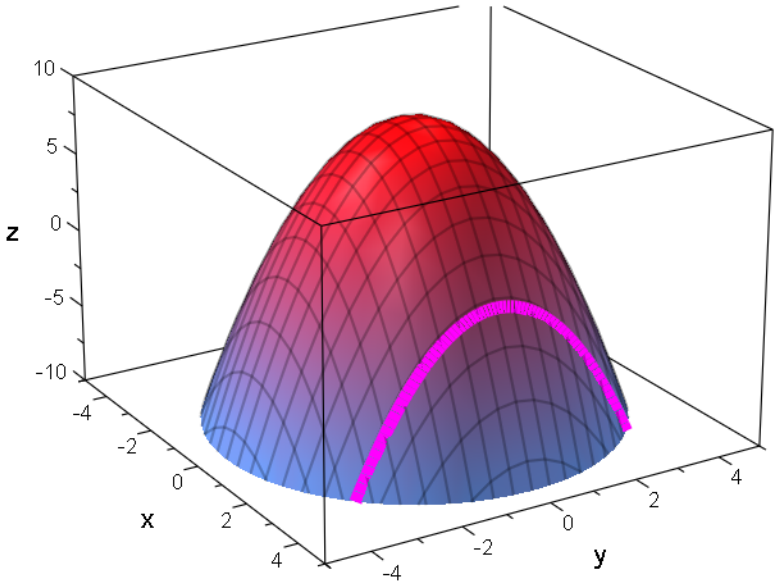

```
plotfunc3d(9-x^2-y^2)
```

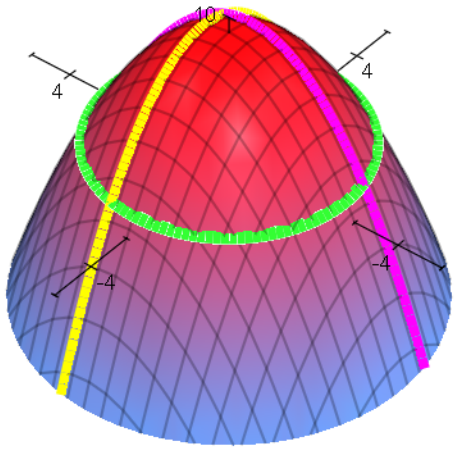



10
5
z
0
-5
-10
4
2
0
-2
-4
y
-4
-2
0
2
4
x

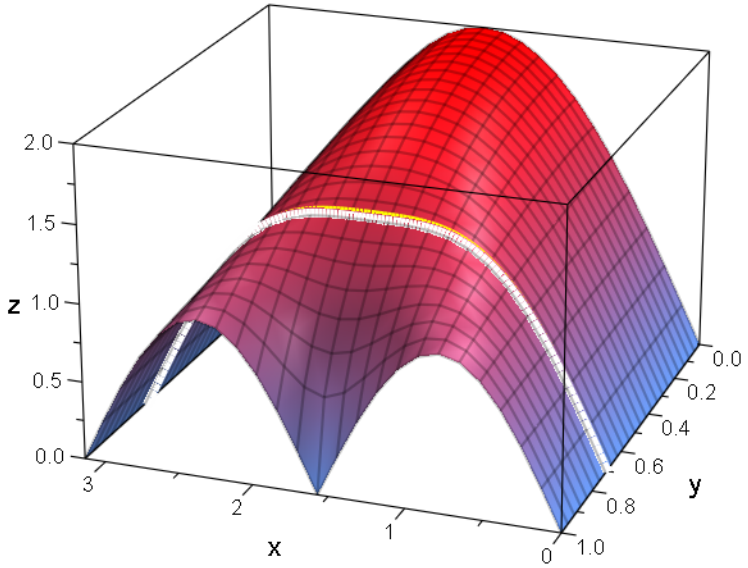

10
5
z
0
-5
-10
-4
-2
0
2
4
x
4
2
0
-2
-4
y
- x^2 - y^2 + 9
a


10
5
0
-5
-10
z
4
2
0
-2
-4
y
4
2
0
-2
-4
x

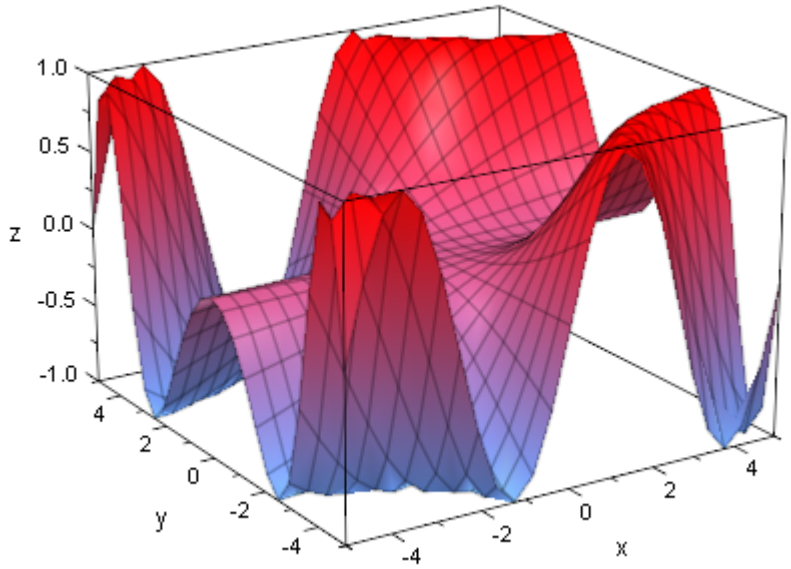

10
5
0
-5
-10
z
-4
-2
0
2
4
x
-4
-2
0
2
4
y


10
4
4
-4
-4

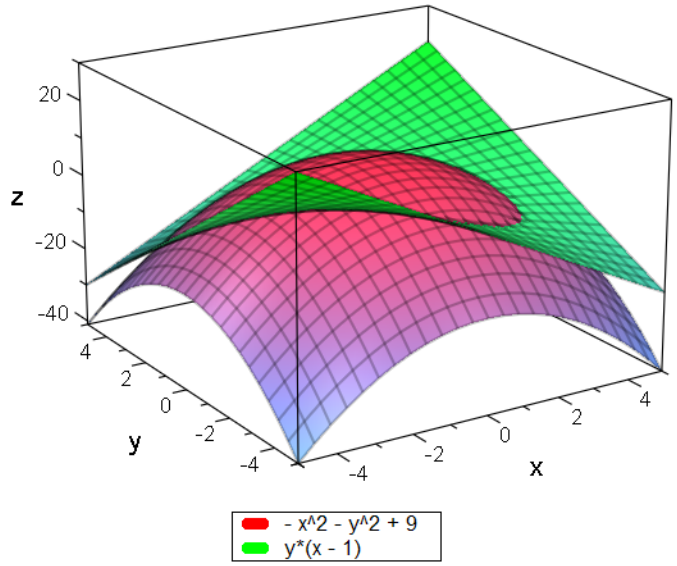
Suche nach der optimalen Form



animieren durch Anklicken!




```
plotfunc3d(9-x^2-y^2,(x-1)*y)
```




```
plotfunc3d(sin(y*x))
```