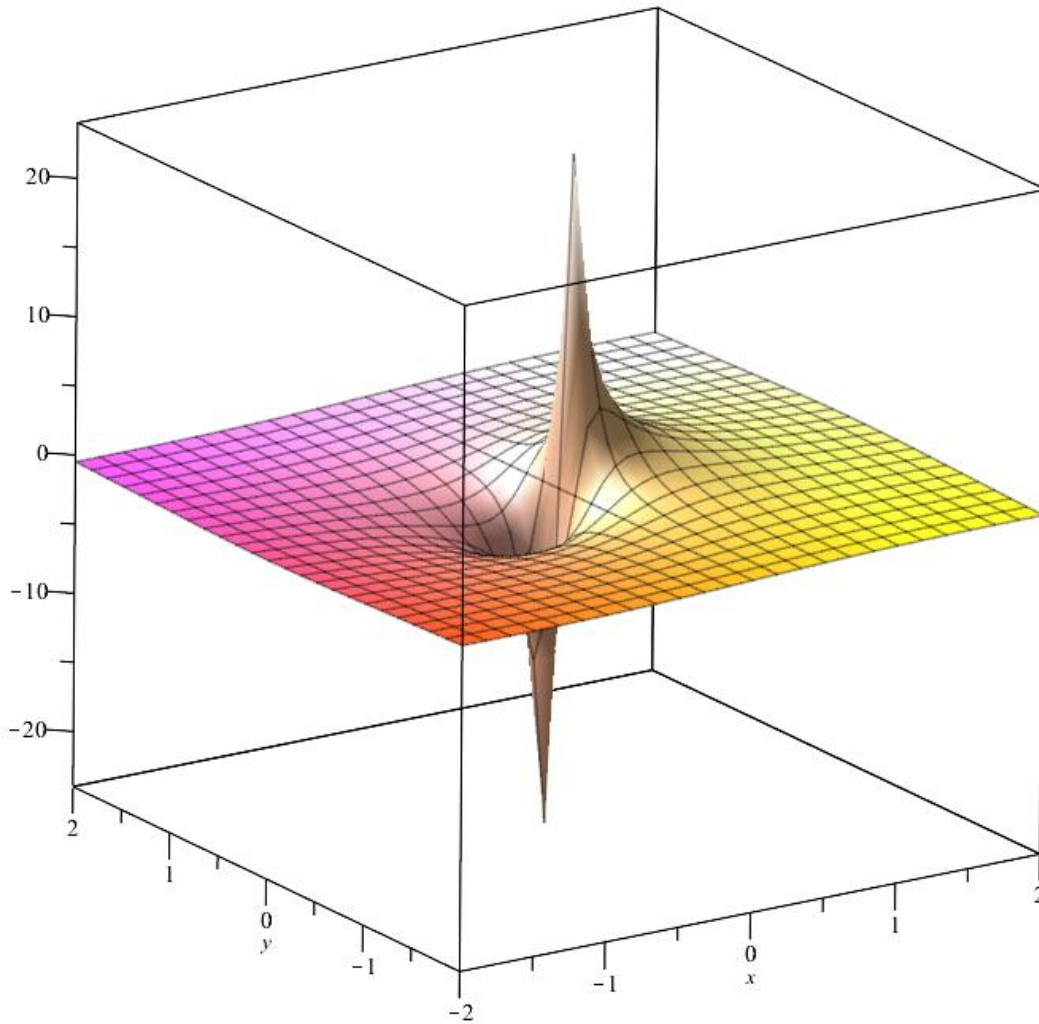


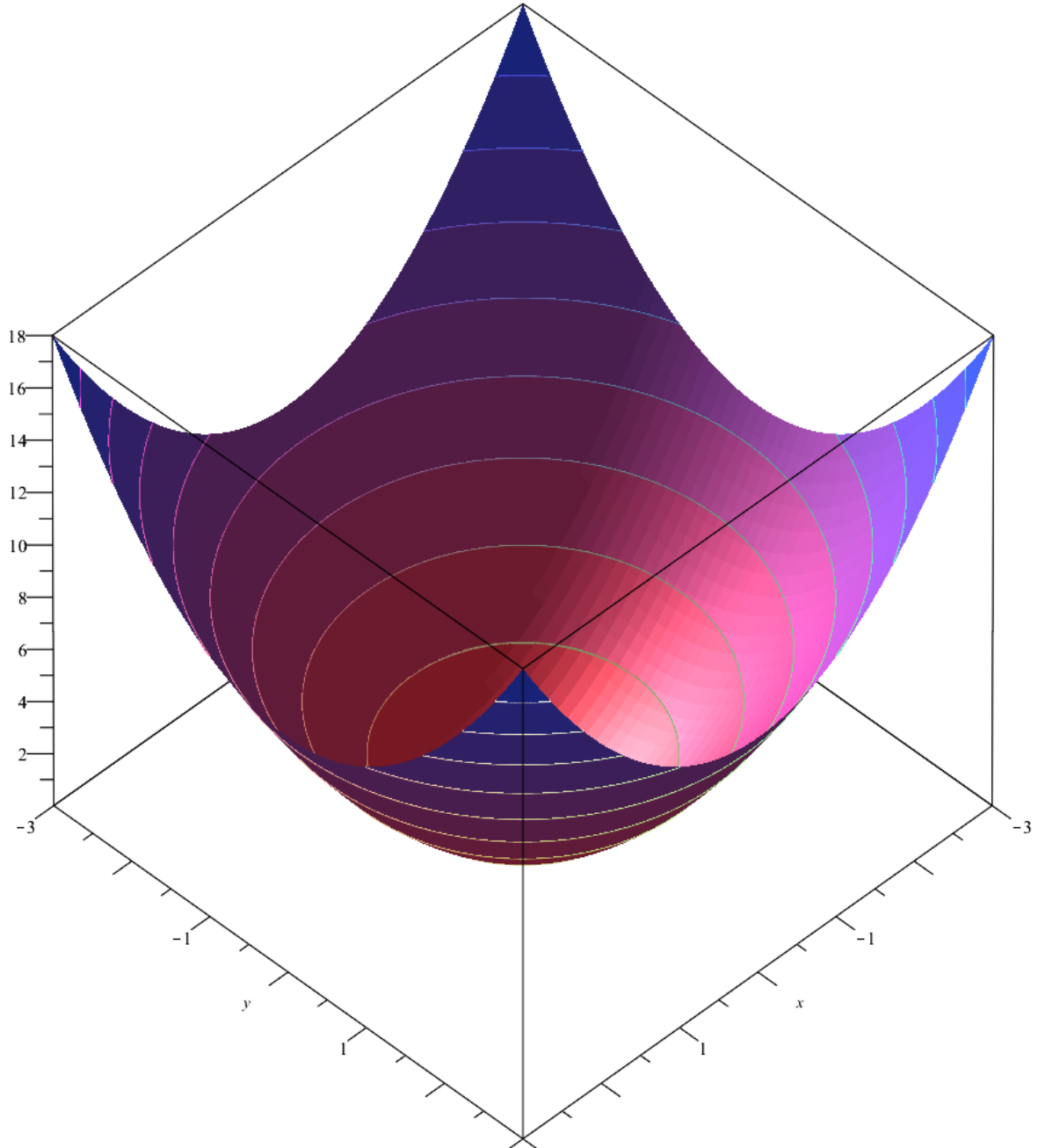
Some contour plots generated in Maple

Note: in each plot call, the function is the first argument, followed by ranges for each of the variables: for example, “ $x = -2 \dots 2$ ” means x ranges over $[-2, 2]$.

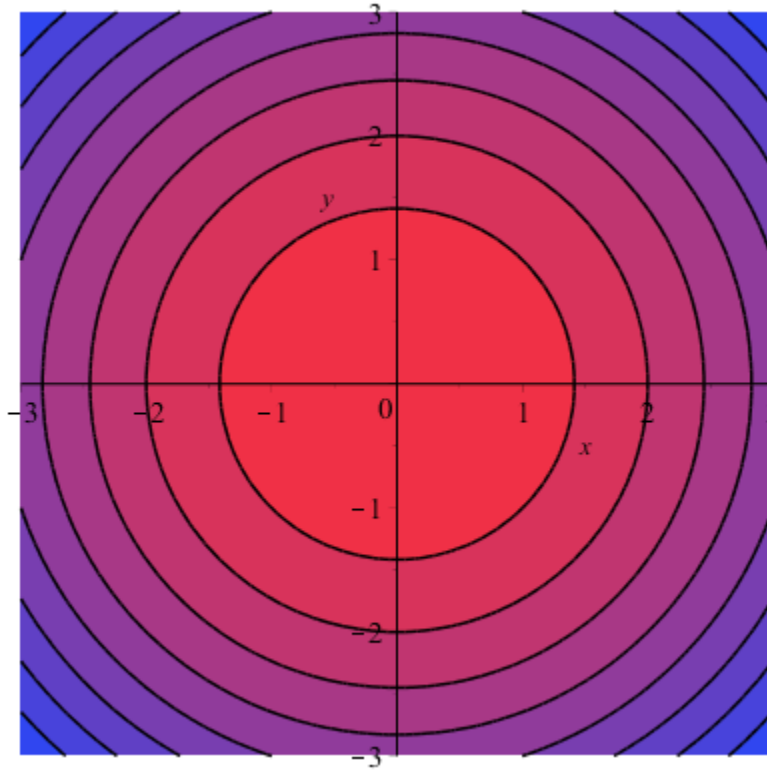
```
plot3d(2*x/(x^2+y^2+0.1e-5), x = -2 .. 2, y = -2 .. 2)
```



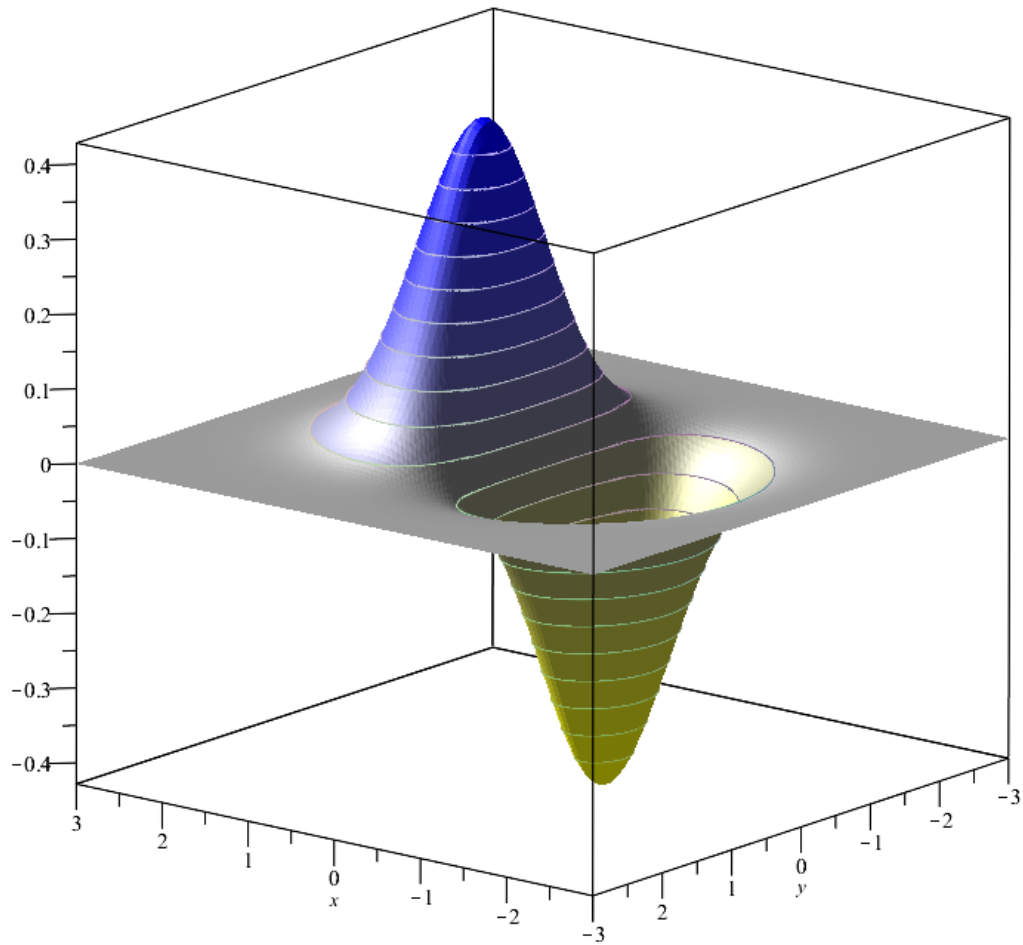
```
contourplot3d(x^2+y^2, x = -3 .. 3, y = -3 .. 3, filledregions = true)
```



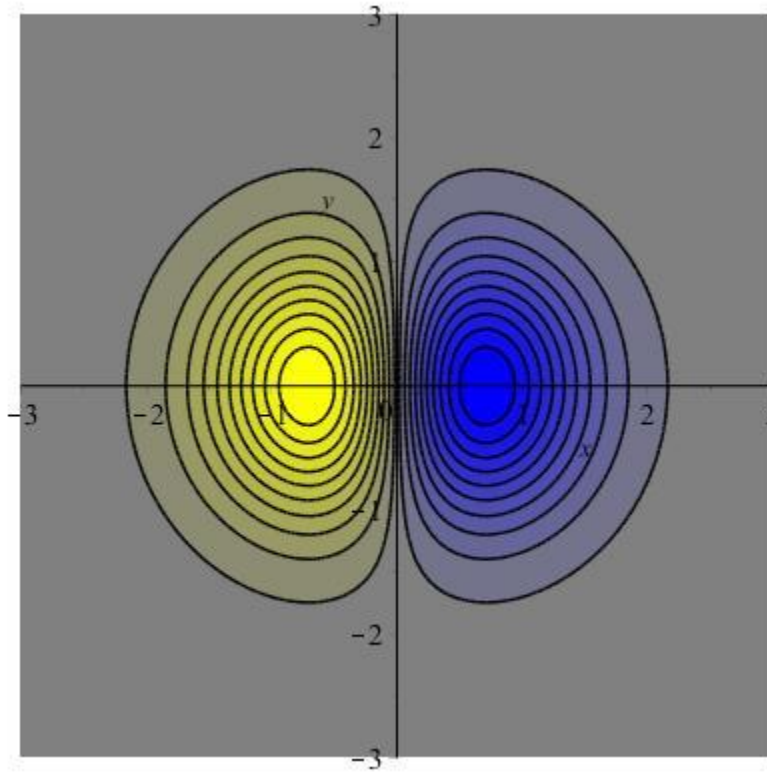
`contourplot(x2 + y2, x=-3..3, y=-3..3, filledregions = true)`



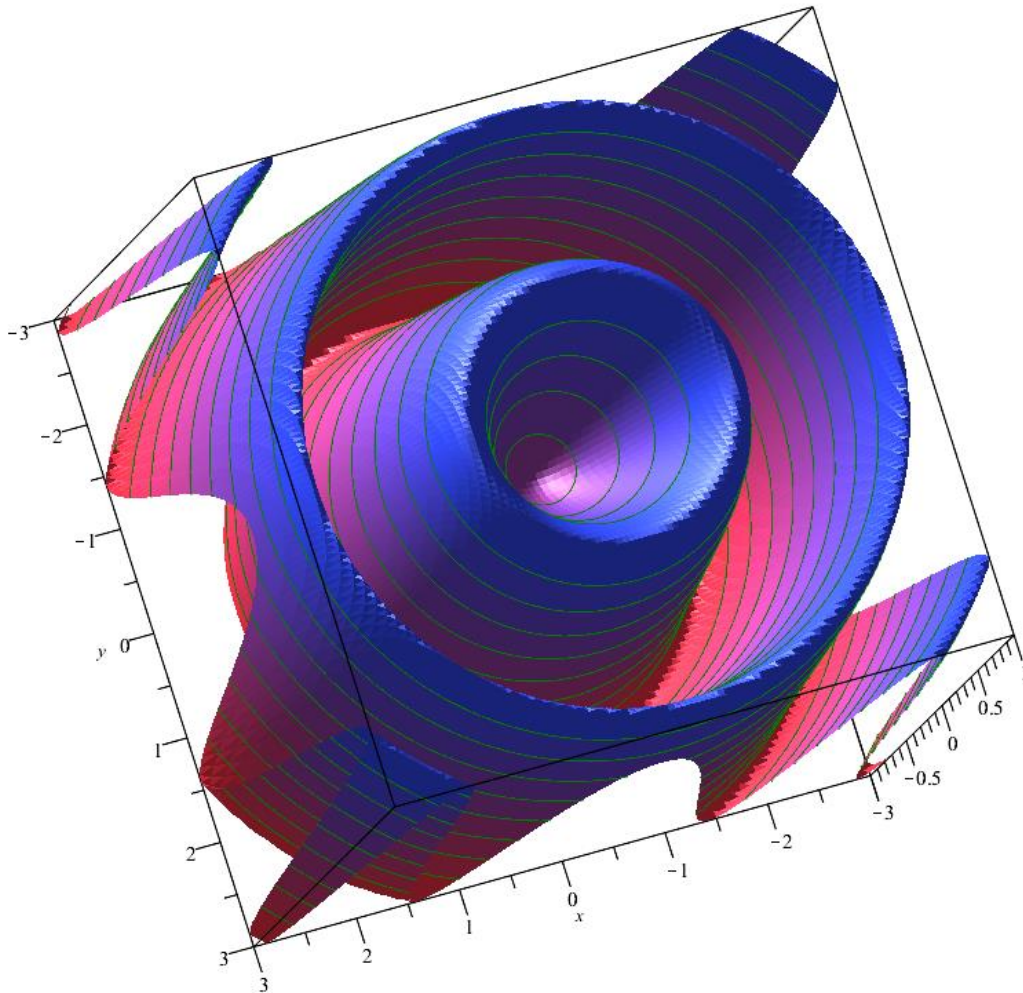
```
contourplot3d(x*exp(-x^2-y^2), x = -3 .. 3, y = -3 .. 3, filledregions  
= true, grid = [100, 100], contours = 20, coloring = ["Yellow",  
"Blue"])
```



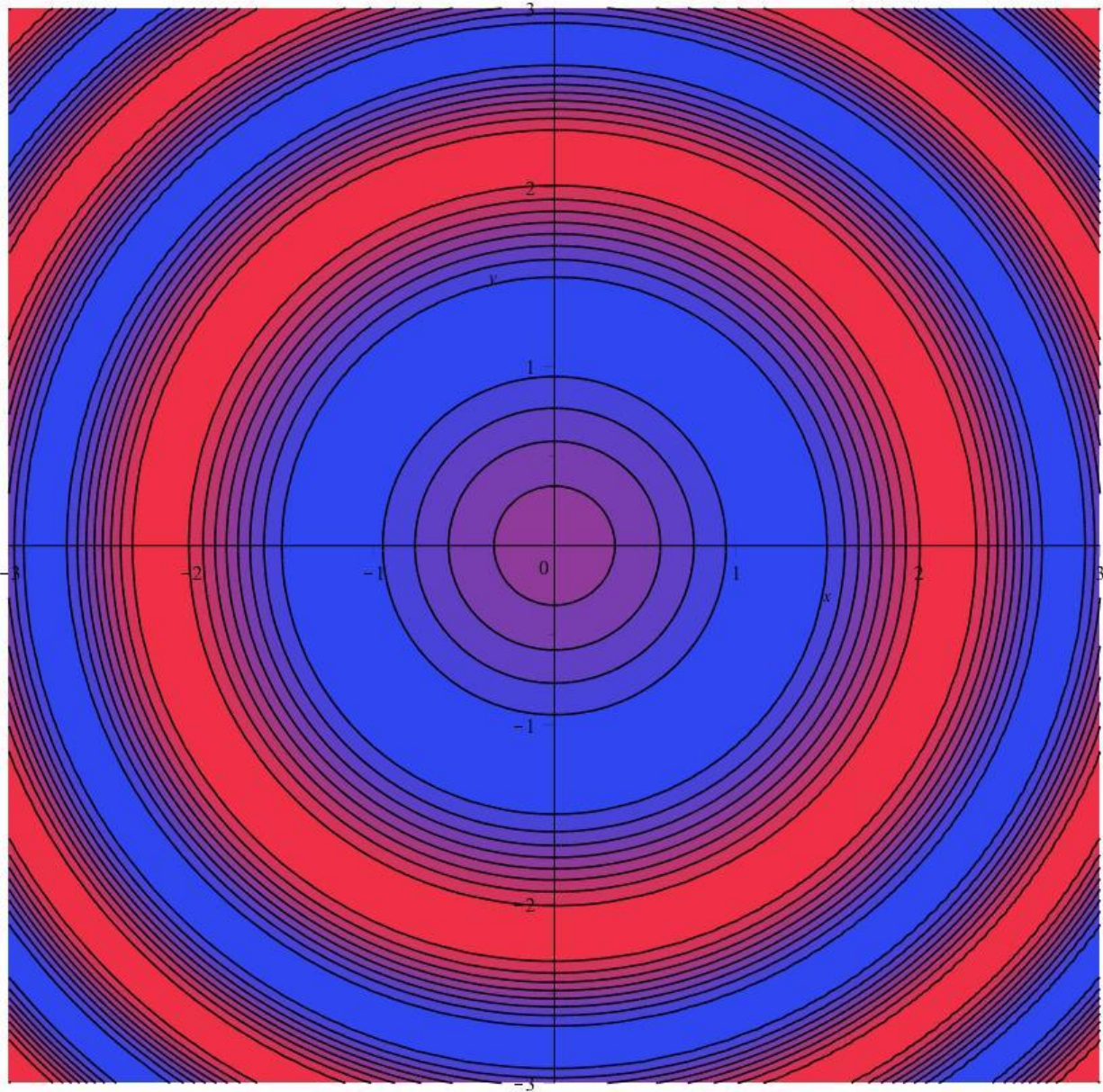
```
contourplot(x*exp(-x^2-y^2), x = -3 .. 3, y = -3 .. 3, filledregions =  
true, grid = [100, 100], contours = 20, coloring = ["Yellow", "Blue"])
```



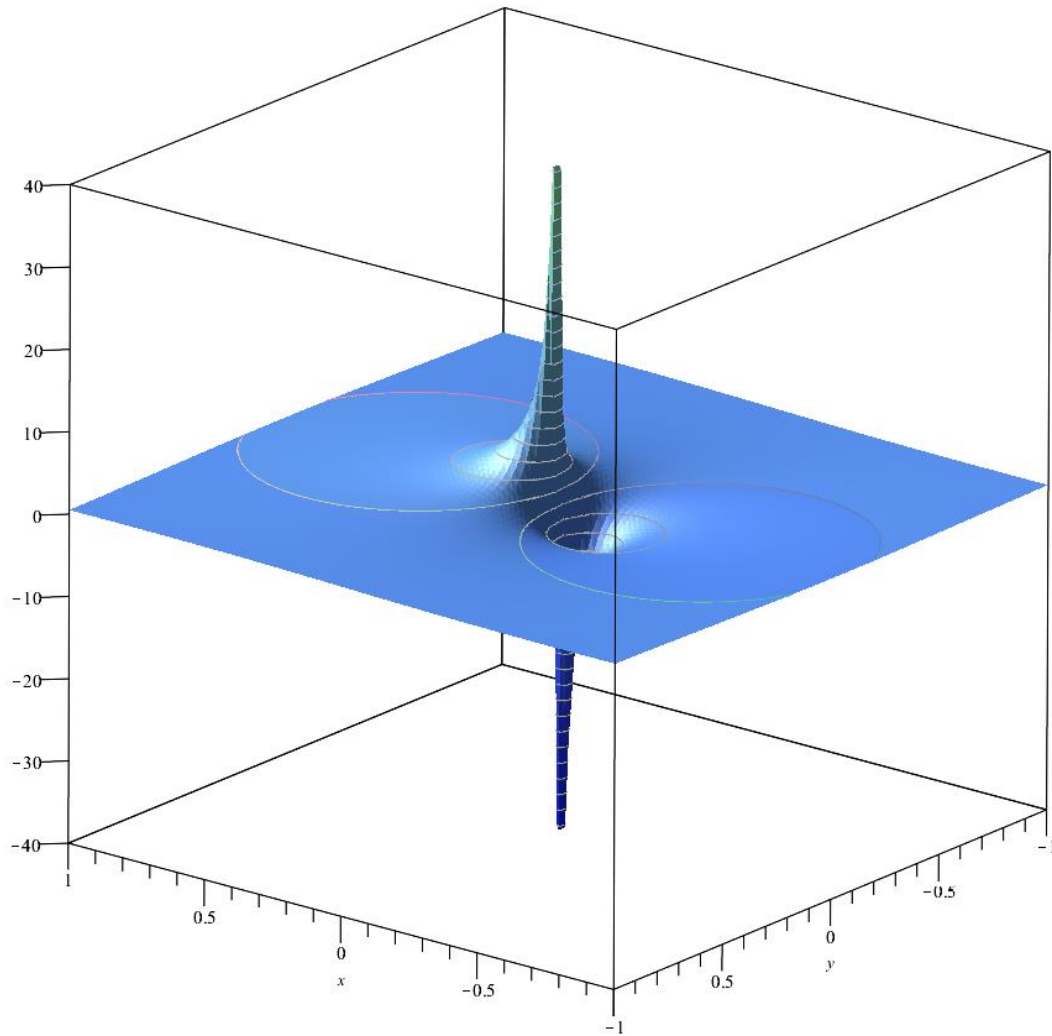
```
contourplot3d(sin(x^2+y^2), x = -3 .. 3, y = -3 .. 3, filledregions =  
true, grid = [100, 100])
```



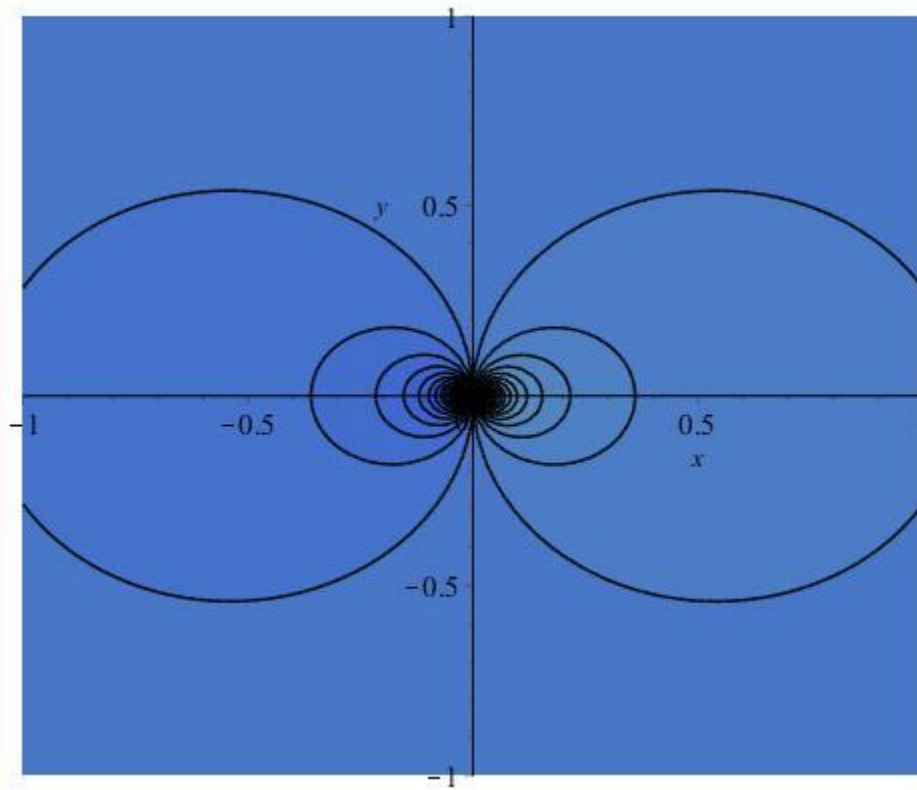
```
contourplot(sin(x^2+y^2), x = -3 .. 3, y = -3 .. 3, filledregions =  
true, grid = [100, 100])
```



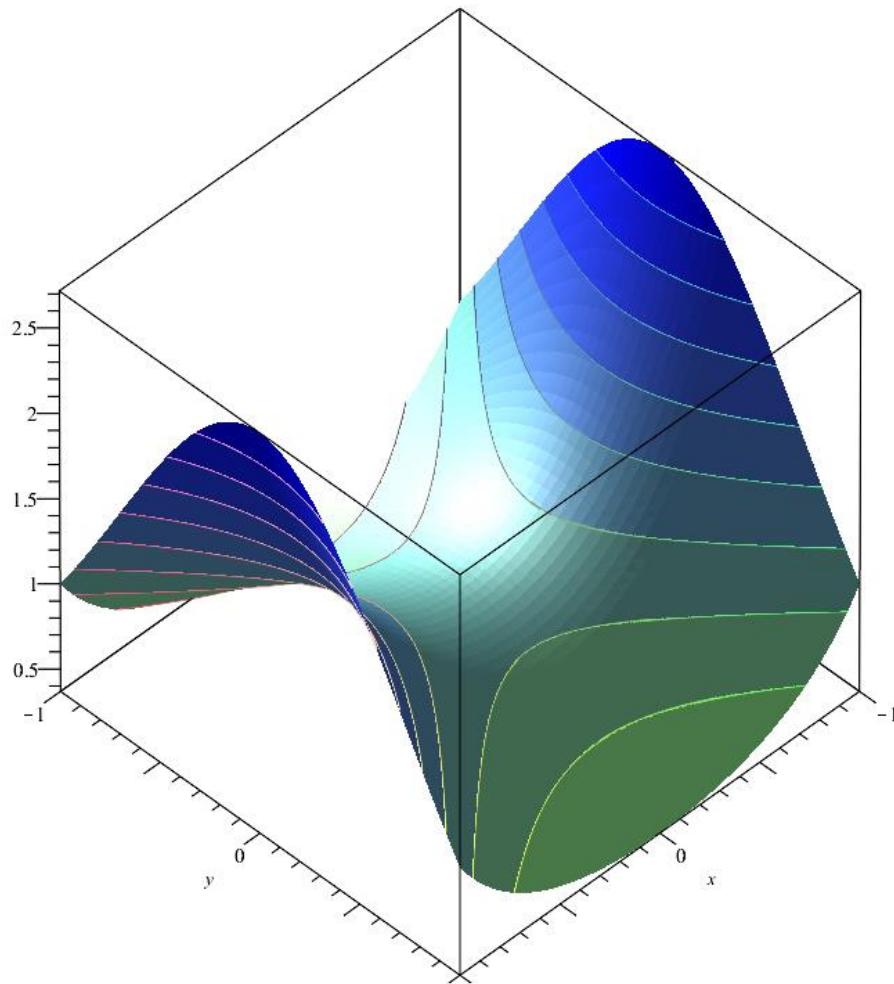
```
contourplot3d(x/(x^2+y^2+0.1e-5), x = -1 .. 1, y = -1 .. 1,  
filledregions = true, contours = 50, coloring = ["Blue",  
"LightGreen"], grid = [100, 100])
```



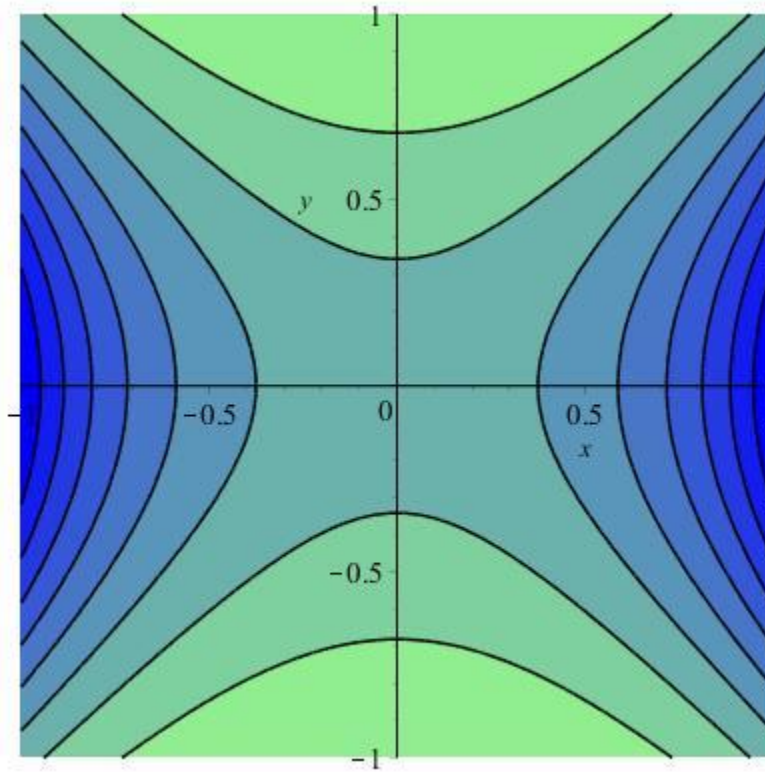

```
contourplot(x/(y^2+x^2+0.1e-4), x = -1 .. 1, y = -1 .. 1,  
filledregions = true, contours = 50, coloring = ["Blue",  
"LightGreen"], grid = [100, 100])
```



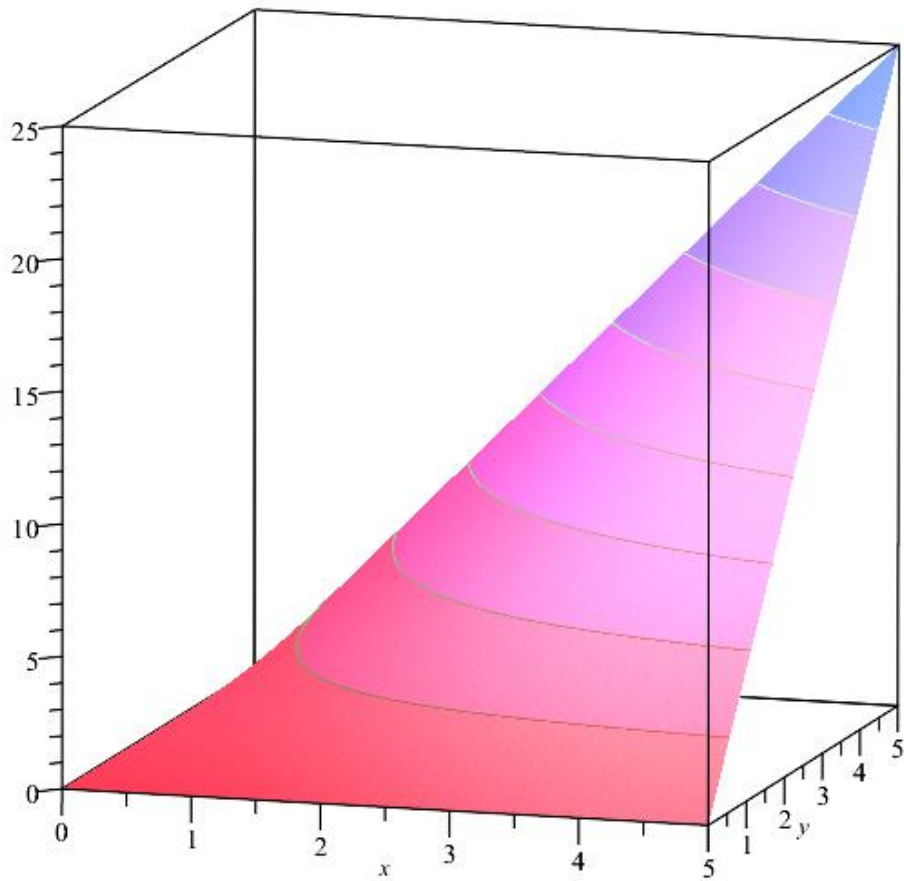
```
contourplot3d(exp(x^2-y^2), x = -1 .. 1, y = -1 .. 1, filledregions =  
true, coloring = ["LightGreen", "Blue"])
```



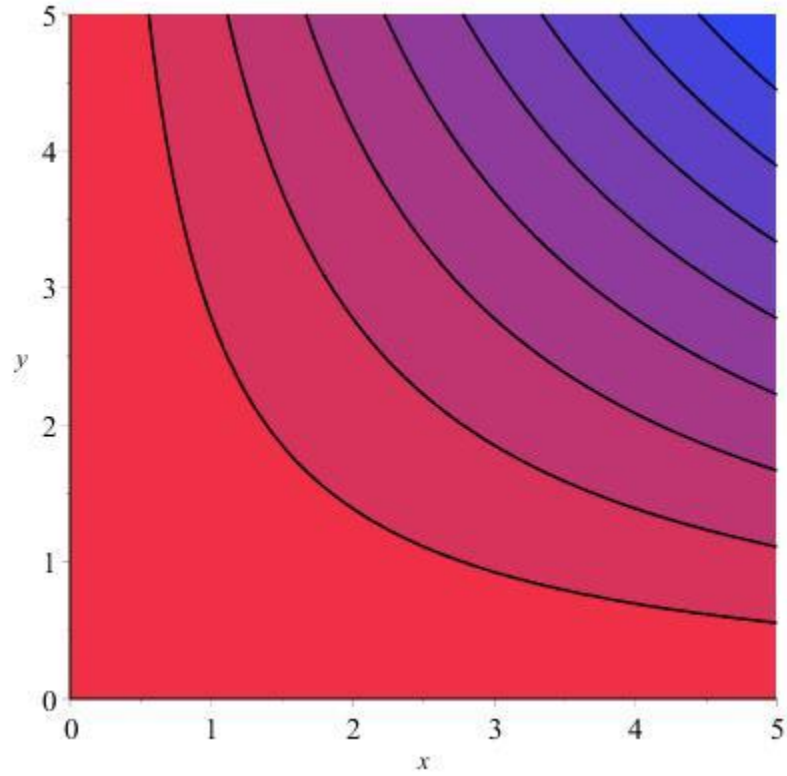
```
contourplot(exp(x^2-y^2), x = -1 .. 1, y = -1 .. 1, filledregions =  
true, coloring = ["LightGreen", "Blue"])
```



```
contourplot3d(x*y, x = 0 .. 5, y = 0 .. 5, filledregions = true)
```

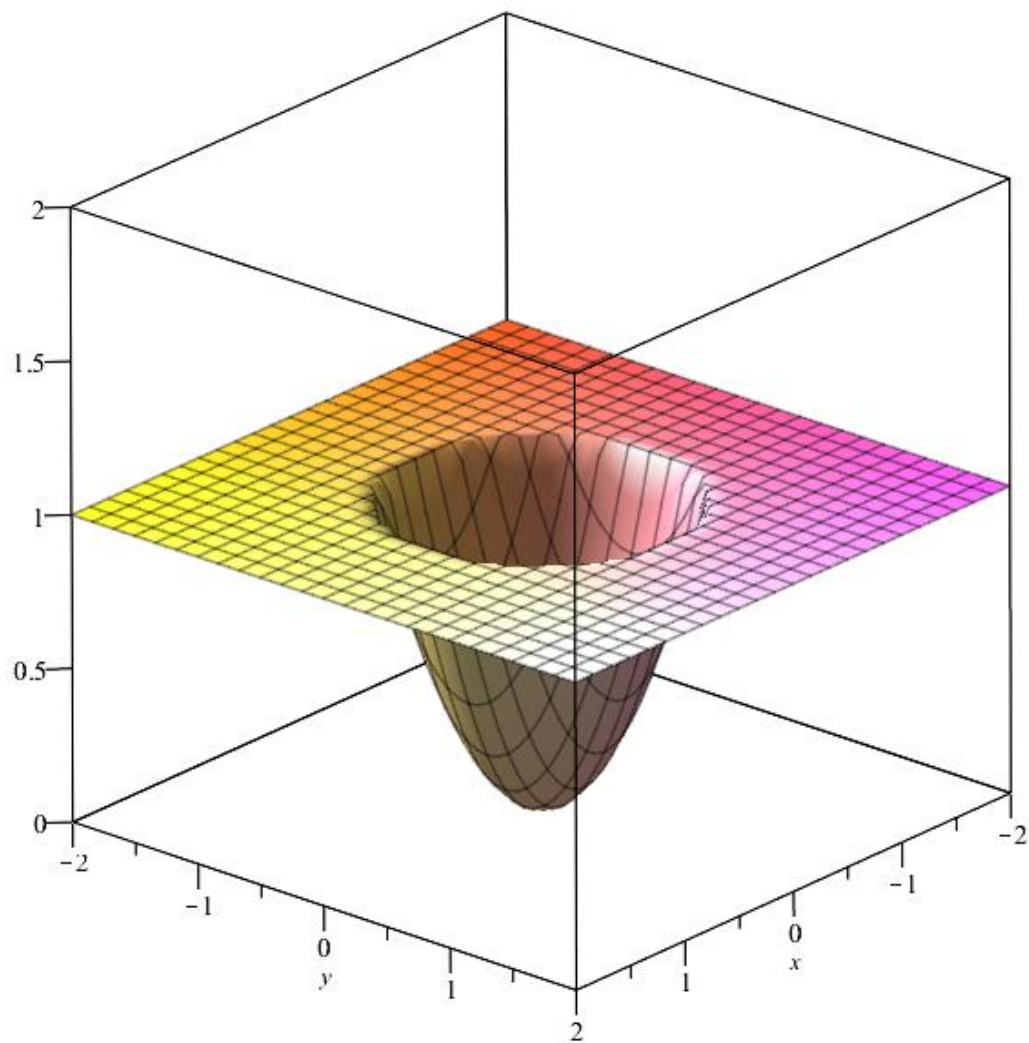


```
contourplot(x*y, x = 0 .. 5, y = 0 .. 5, filledregions = true)
```



$$f(x, y) := \begin{cases} x^2 + y^2 & x^2 + y^2 < 1 \\ 1 & x^2 + y^2 \geq 1 \end{cases}$$

`plot3d(f, -2..2, -2..2)`



```
contourplot3d(f, -2 .. 2, -2 .. 2, filledregions = true, grid = [100,  
100])
```

