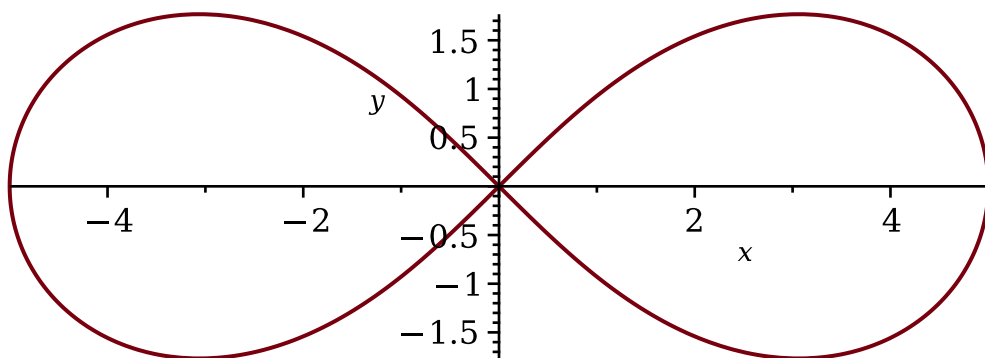


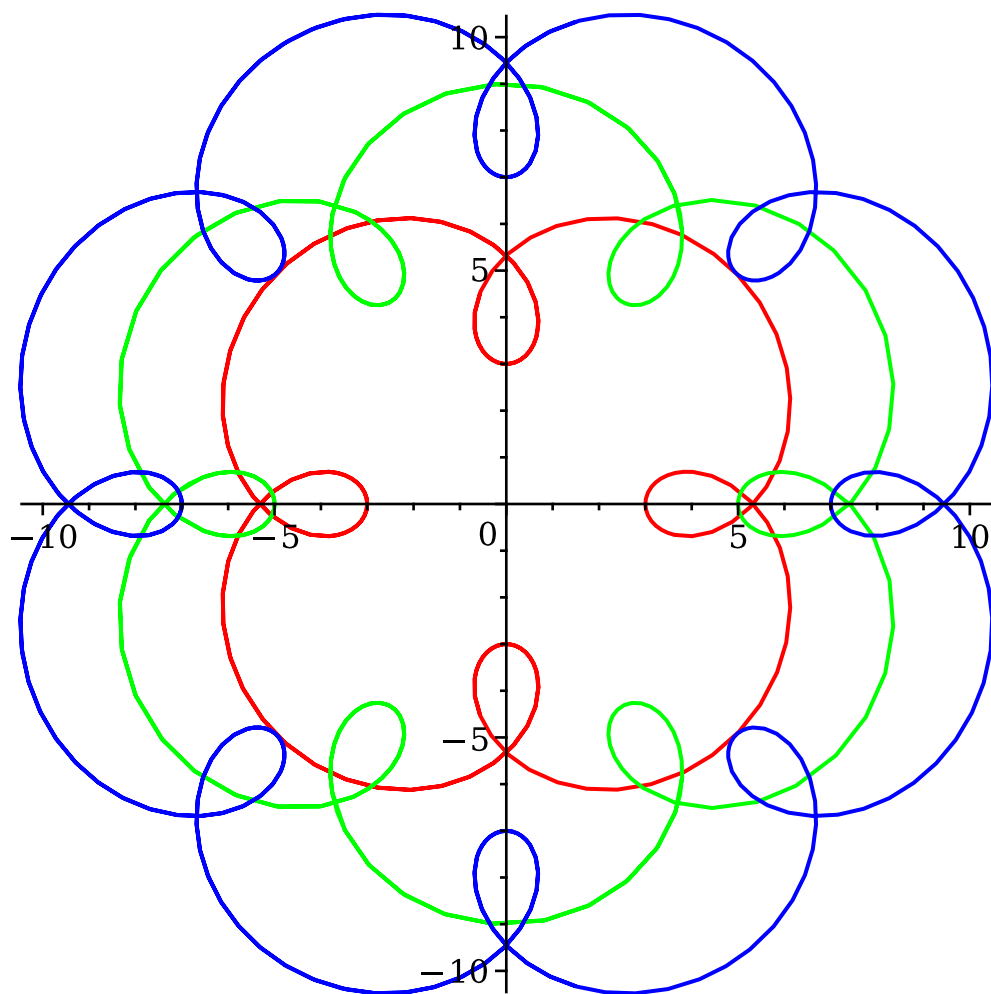
```
[> restart
=> with(plottools):
=> with(plots):
```

```
[1)
> implicitplot((x**2+y**2)**2=25*(x**2-y**2), scaling=constrained)
```



```
[2)
> c := seq([n*cos(t) - 2*cos(n*t), n*sin(t) - 2*sin(n*t), t=-5..5],
n=5..9, 2)
c := [5 cos(t) - 2 cos(5 t), 5 sin(t) - 2 sin(5 t), t = -5..5], [7 cos(t) - 2 cos(7 t), (1)
7 sin(t) - 2 sin(7 t), t = -5..5], [9 cos(t) - 2 cos(9 t), 9 sin(t) - 2 sin(9 t), t
= -5..5]
```

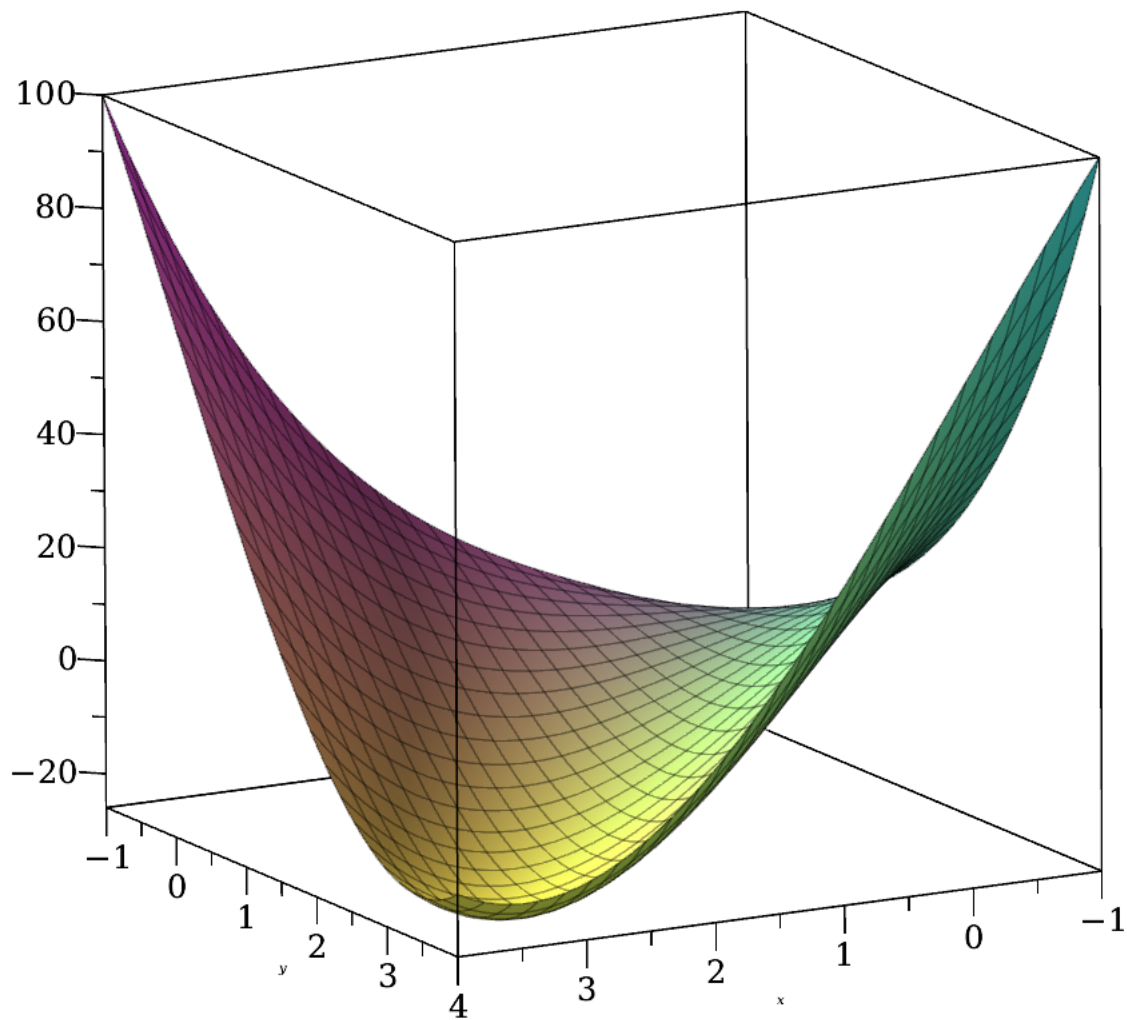
```
[> plot([c], color=["red", "green", "blue"])
```



3)

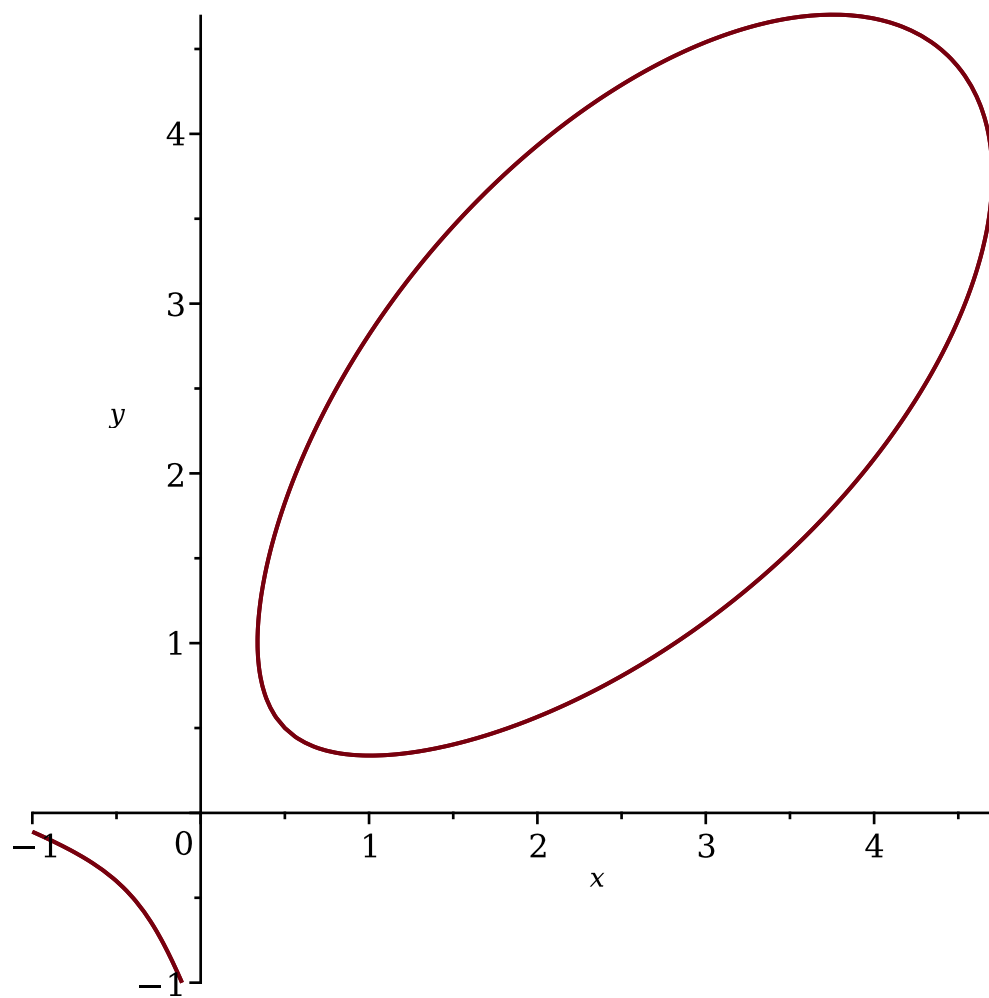
a)

> plot3d(y**3+x**3-9*x*y+1)



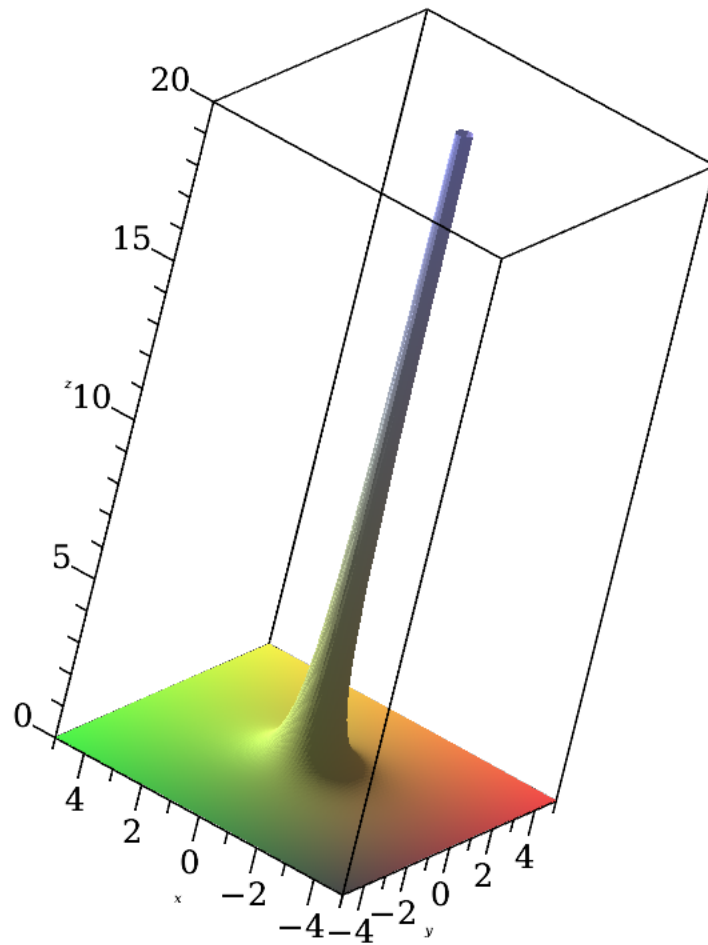
b)

```
> vr1 := implicitplot(y**3+x**3-9*x*y+1=-1):  
> vr2 := implicitplot(y**3+x**3-9*x*y+1=-1):  
> display(vr1, vr2)
```



4)

```
> implicitplot3d(z=1/(x**2+y**2), y=-5..5, x=-5..5, z=0..20, grid=[100,100,100], scaling=constrained, style=surface)
```



5)

```
> plot3d(5/2*(x+y)*sin(x**2+y**2)+4, x=-1..1.7, y=-1..1.7, color=
gray, style=surfacecontour, contours = [6.5])
```

