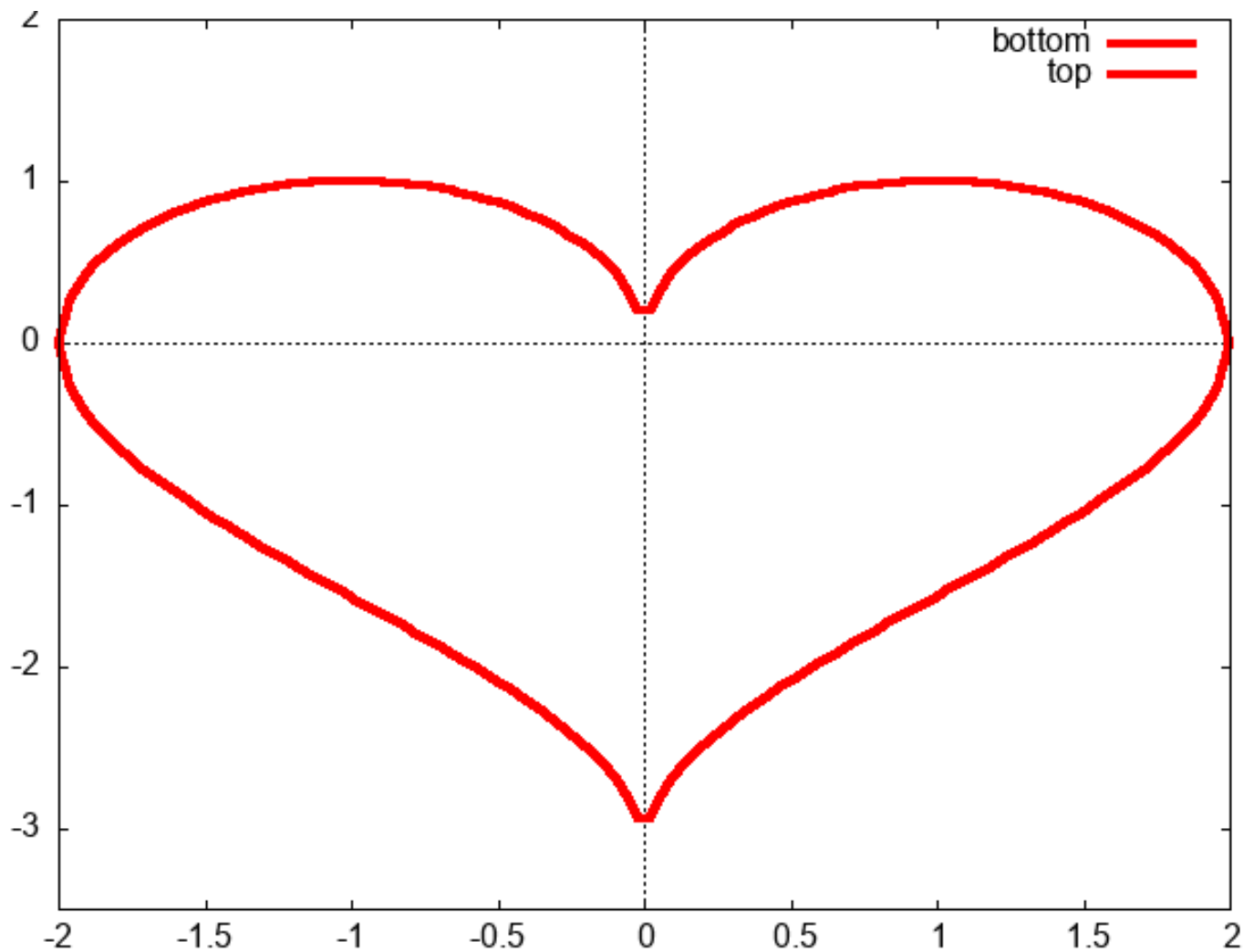


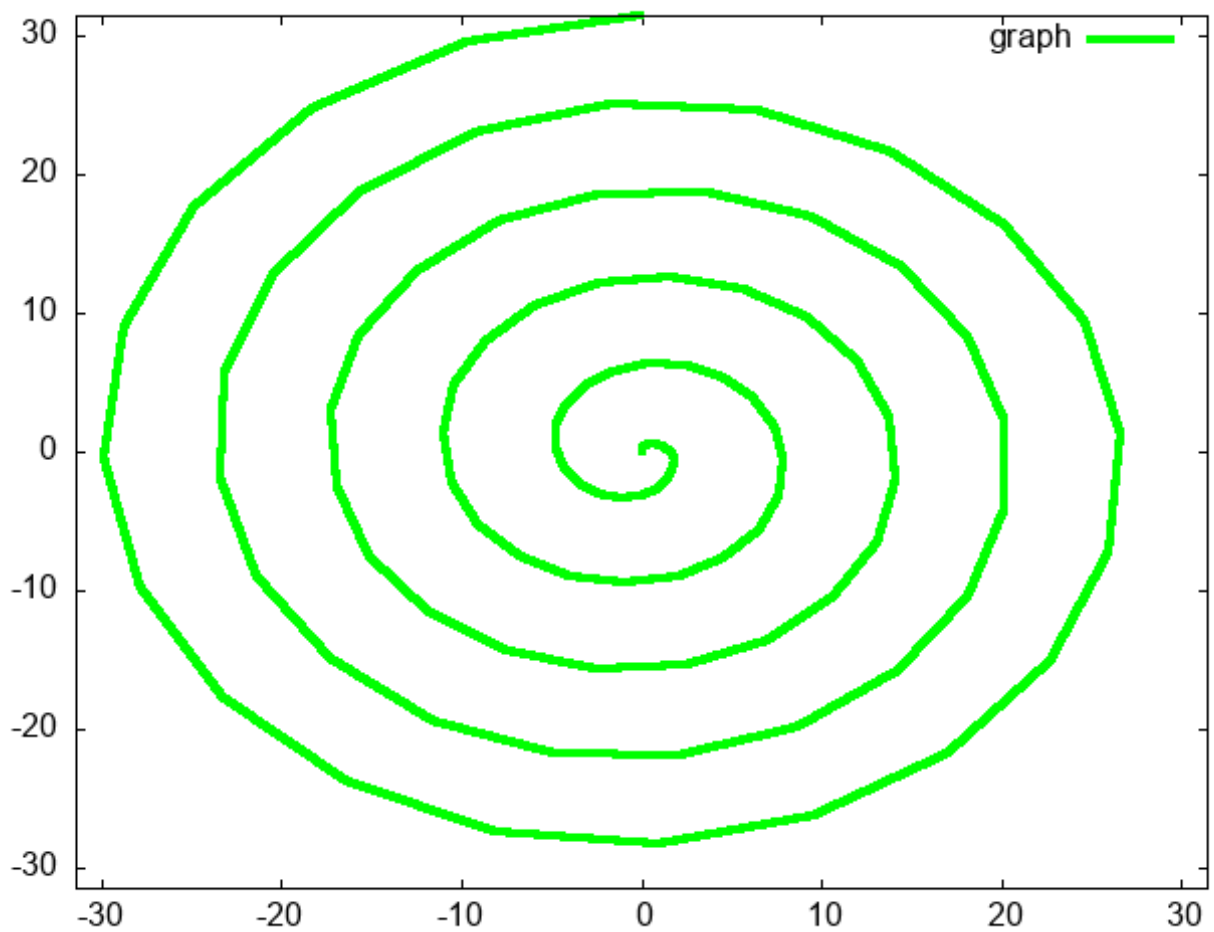
Морозов Данила Алексеевич, студент группы 224-ЗИС

График 2D в декартовых координатах



```
Terminal type is now 'qt'  
gnuplot> set term png  
  
Terminal type is now 'png'  
Options are 'nocrop enhanced size 640,480 font "arial,12.0" '  
gnuplot> set output 'lesson1.png'  
gnuplot> set yrange[-3.5:2]  
gnuplot> set xzeroaxis  
gnuplot> set yzeroaxis  
gnuplot> plot [-2:2] acos(1-abs(x))-pi t "bottom" lt rgb "#FF0000" lw 4, sqrt(1-(abs(x)-1)**2) t "top" lt rgb "#FF0000" lw 4  
gnuplot> _
```

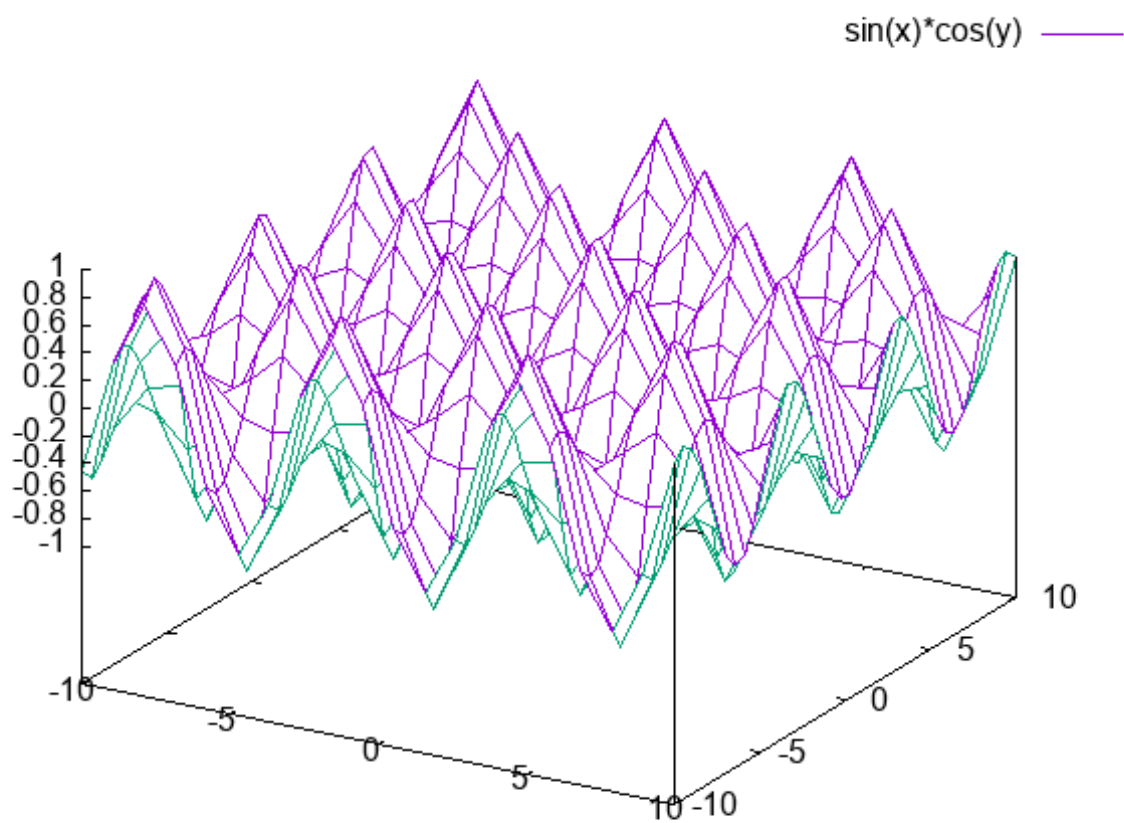
График 2D в полярных координатах



```
gnuplot> set term png
Terminal type is now 'png'
Options are 'nocrop enhanced size 640,480 font "arial,12.0" '
gnuplot> set output 'lesson2.png'
gnuplot> set parametric

        dummy variable is t for curves, u/v for surfaces
gnuplot> set xrange [-10*pi:10*pi]
gnuplot> set yrange [-10*pi:10*pi]
gnuplot> plot [0:10*pi] t*sin(t), t*cos(t) t "graph" lt rgb "#00FF00" lw 4
gnuplot> _
```

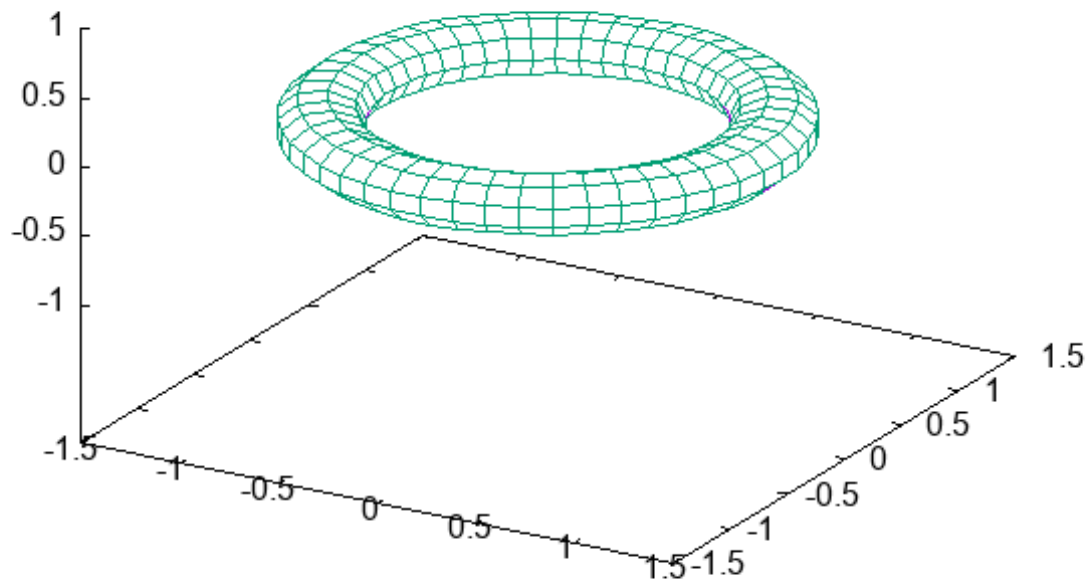
График 3D в декартовых координатах



```
Terminal type is now 'png'  
gnuplot> set term png  
  
Terminal type is now 'png'  
Options are 'nocrop enhanced size 640,480 font "arial,12.0" '  
gnuplot> set output 'lesson3.png'  
gnuplot> set hidden3d  
gnuplot> set isosample 20, 40  
gnuplot> splot sin(x)*cos(y)  
gnuplot> _
```

График 3D в полярных координатах

torus —



```
gnuplot> set term png
Terminal type is now 'png'
Options are 'nocrop enhanced size 640,480 font "arial,12.0" '
gnuplot> set output 'lesson4.png'
gnuplot> set parametric

        dummy variable is t for curves, u/v for surfaces
gnuplot> set isosamples 50, 10
gnuplot> set hidden
gnuplot> set urange [0:2*pi]
gnuplot> set vrange [0:2*pi]
gnuplot> set zrange [-1:1]
gnuplot> splot (1-0.2*cos(v))*cos(u),(1-0.2*cos(v))*sin(u), 0.2*sin(v) t "torus"
gnuplot> _
```