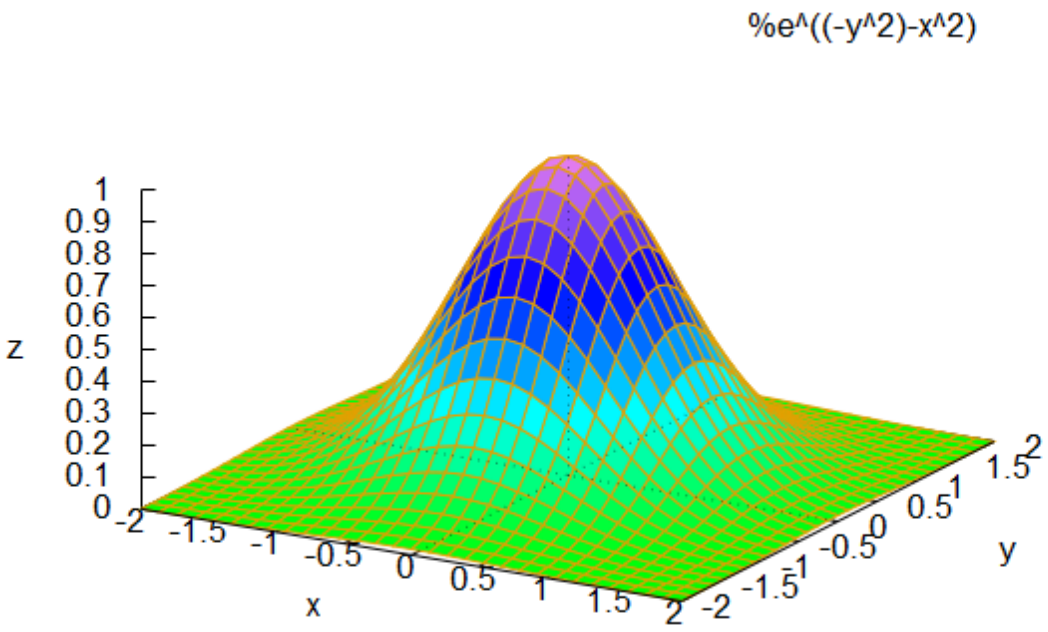
3D PLOTS

--> wxplot3d (%e ^ (− x ^ 2 − y ^ 2) , [x , − 2 , 2] , [y , − 2 , 2]) ;

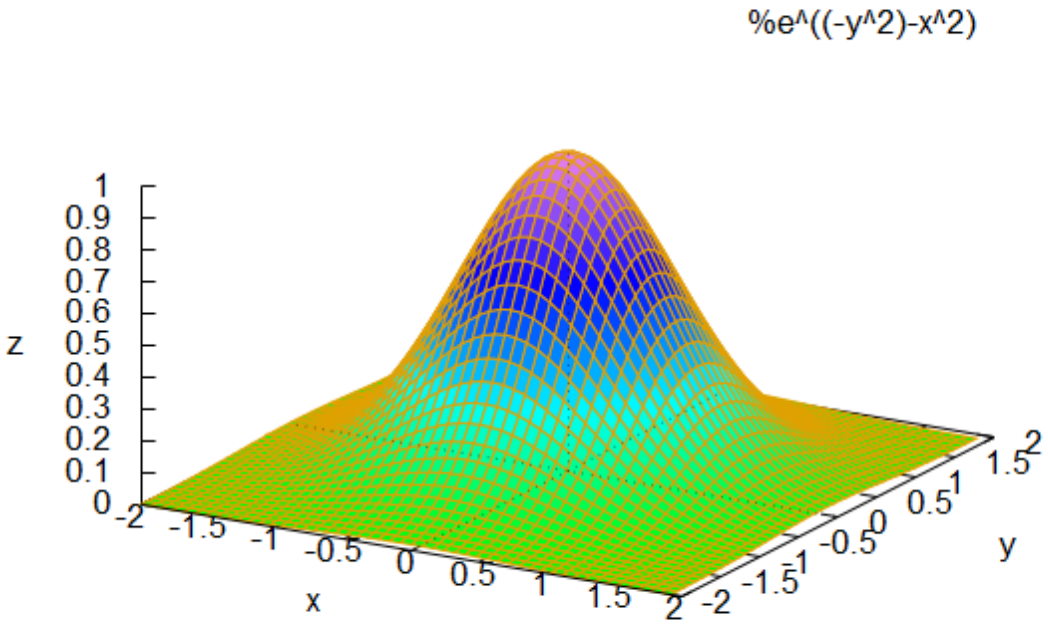
(%t1)



(%o1)

--> wxplot3d (%e ^ (− x ^ 2 − y ^ 2) , [x , − 2 , 2] , [y , − 2 , 2] , [grid , 50 , 50]) ;

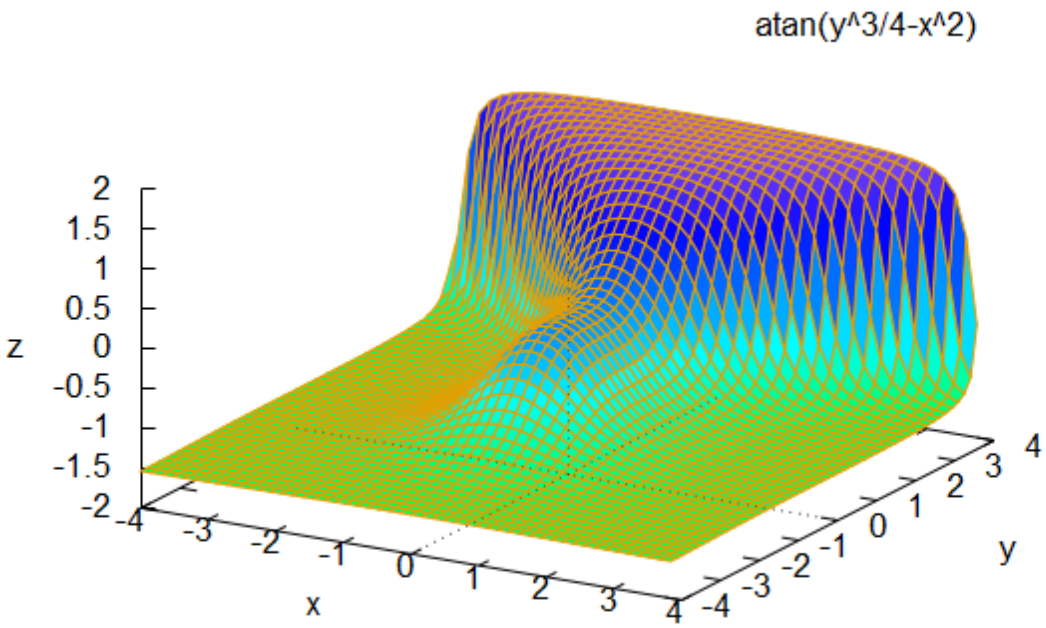
(%t2)



(%o2)

```
--> wxplot3d ( atan ( − x ^ 2 + y ^ 3 / 4 ) , [ x , − 4 , 4 ] , [ y , − 4 , 4 ] , [ grid , 50 , 50 ] , [ mesh_lines_color , red ] ) ;
```

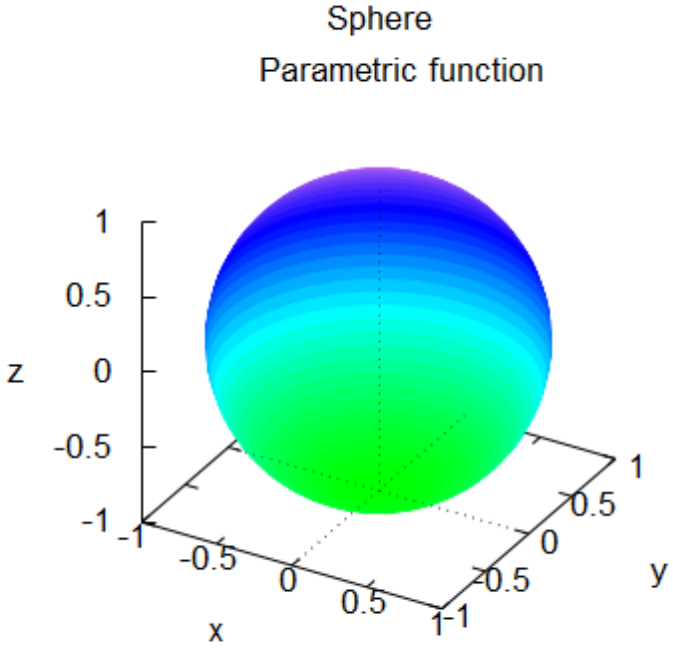
(%t3)



(%o3)

```
--> wxplot3d ( [ cos ( a ) · sin ( b ) , sin ( a ) · sin ( b ) , cos ( b ) ] ,
      [ a , 0 , 2 · %pi ] , [ b , 0 , %pi ] , [ mesh_lines_color , false ] ,
      [ grid , 40 , 40 ] , [ same_xyz , true ] , [ title , "Sphere" ] , [ axes , solid ] ) ;
```

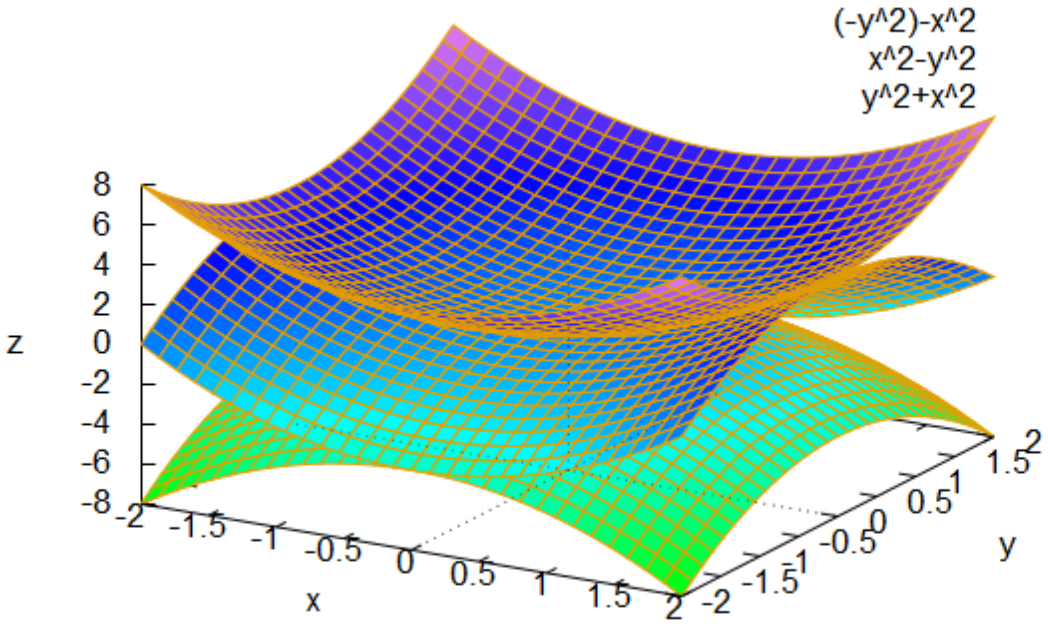
(%t4)



(%o4)

```
--> wxplot3d ( [ x ^ 2 + y ^ 2 , - x ^ 2 - y ^ 2 , x ^ 2 - y ^ 2 , [ x , - 2 , 2 ] , [ y , - 2 , 2 ] ] ) ;
```

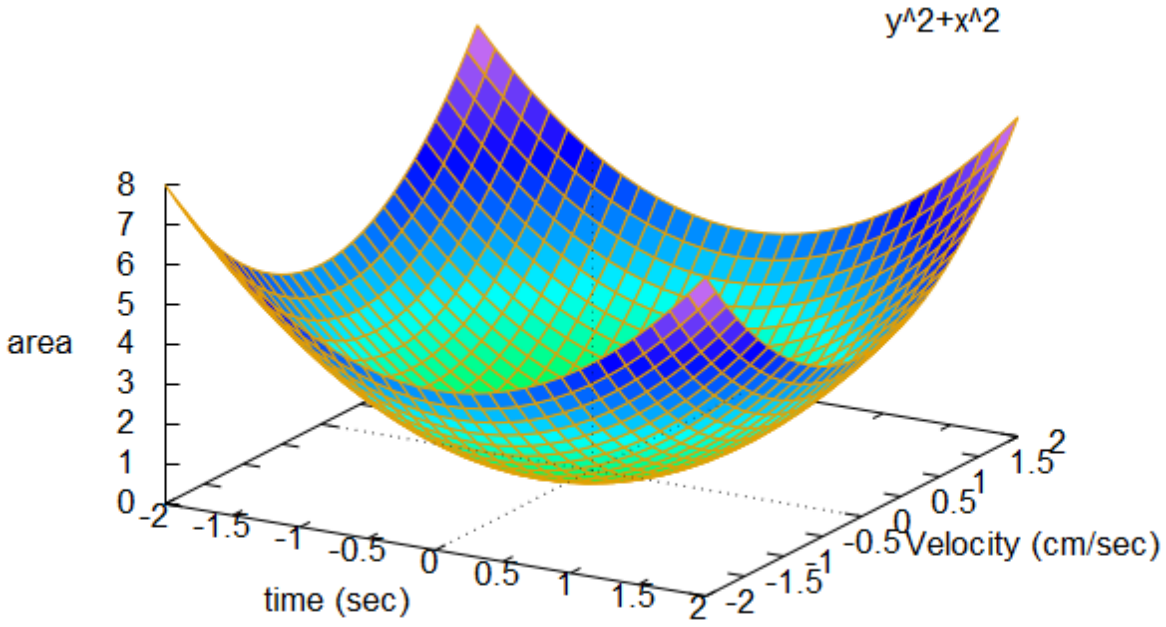
(%t5)



(%o5)

```
--> wxplot3d ( x ^ 2 + y ^ 2 , [ x , - 2 , 2 ] , [ y , - 2 , 2 ] ,
        [ xlabel , "time (sec)" ] , [ ylabel , "Velocity (cm/sec)" ] , [ zlabel , "area" ] ) ;
```

(%t6)



(%o6)
