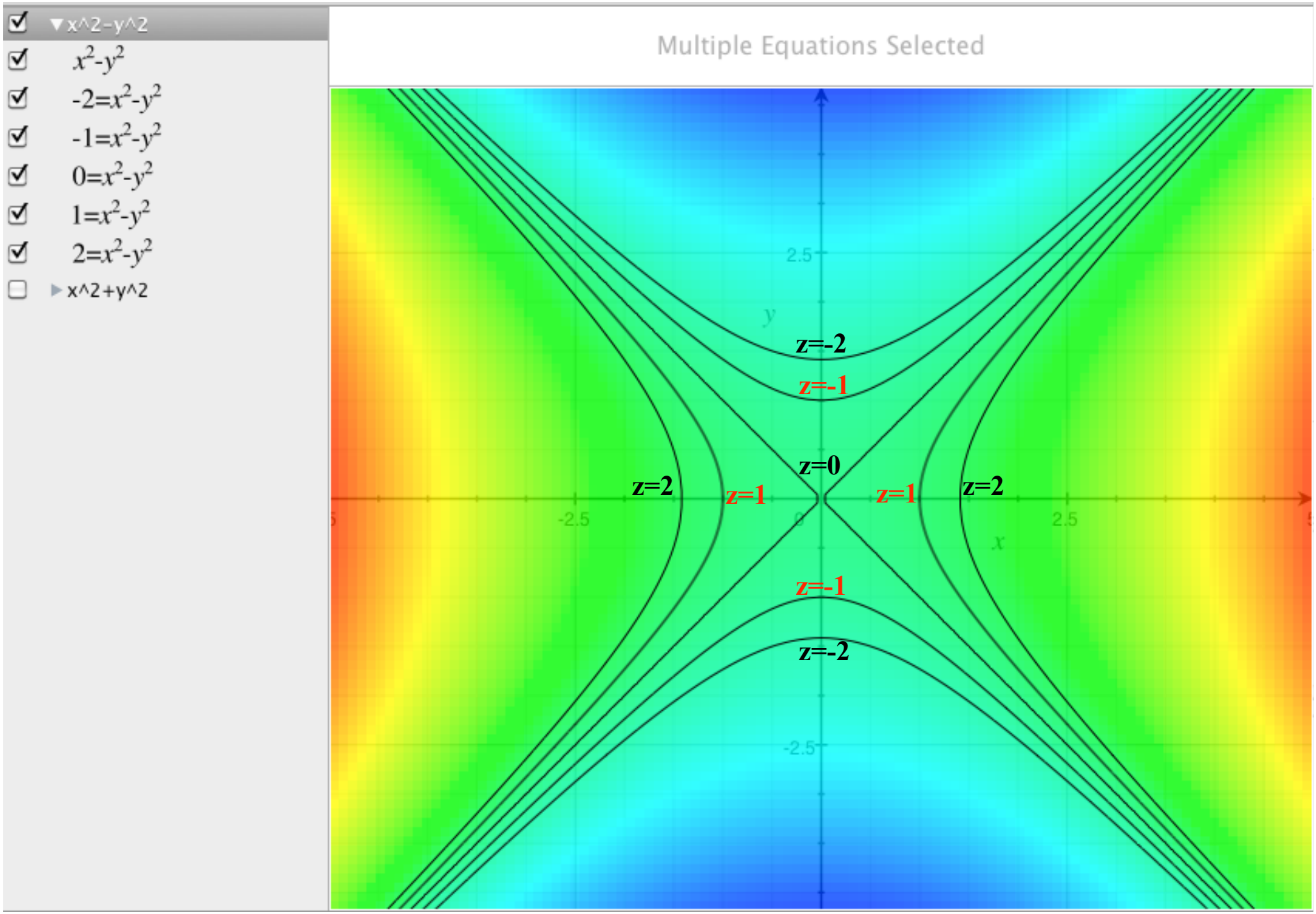
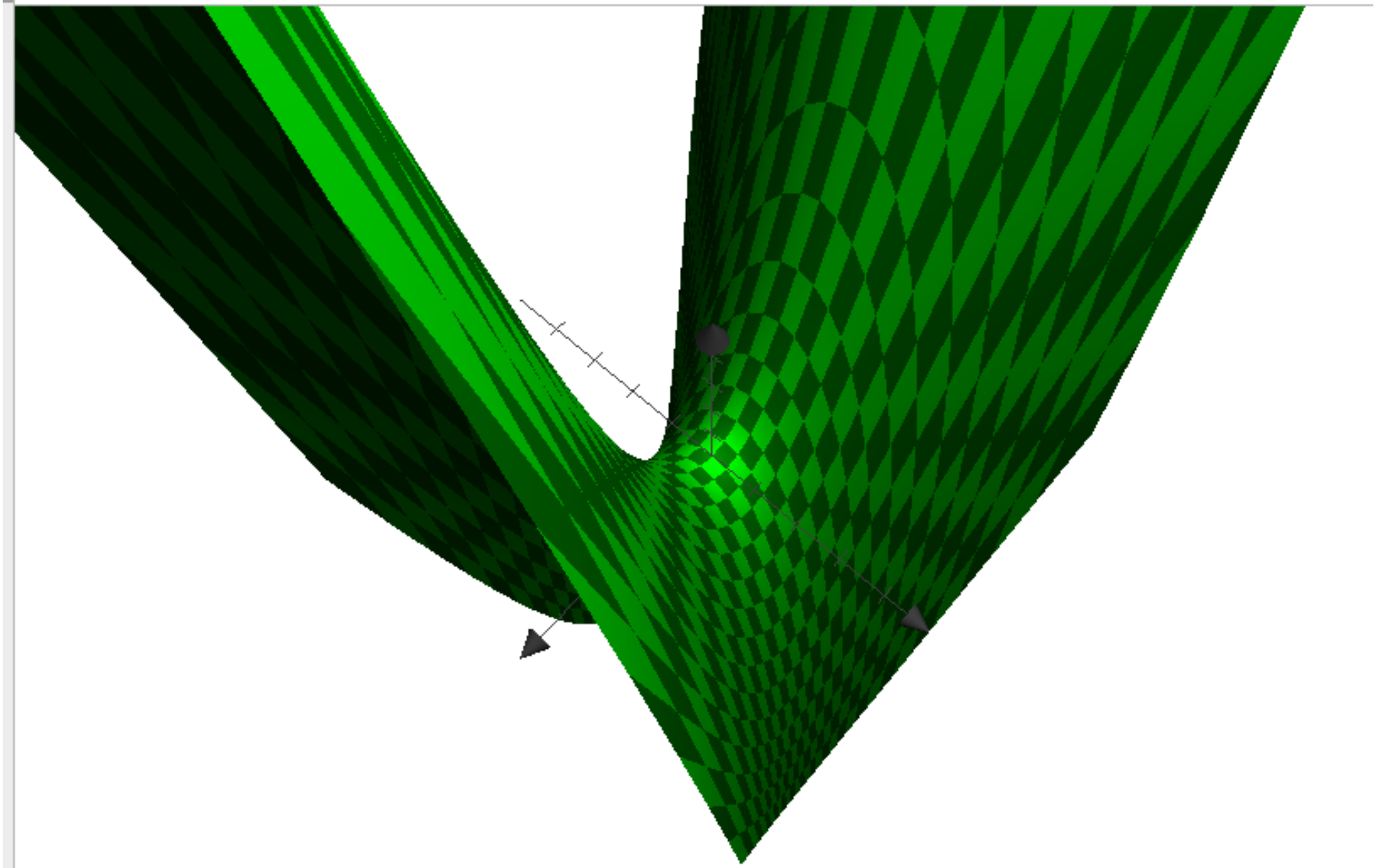
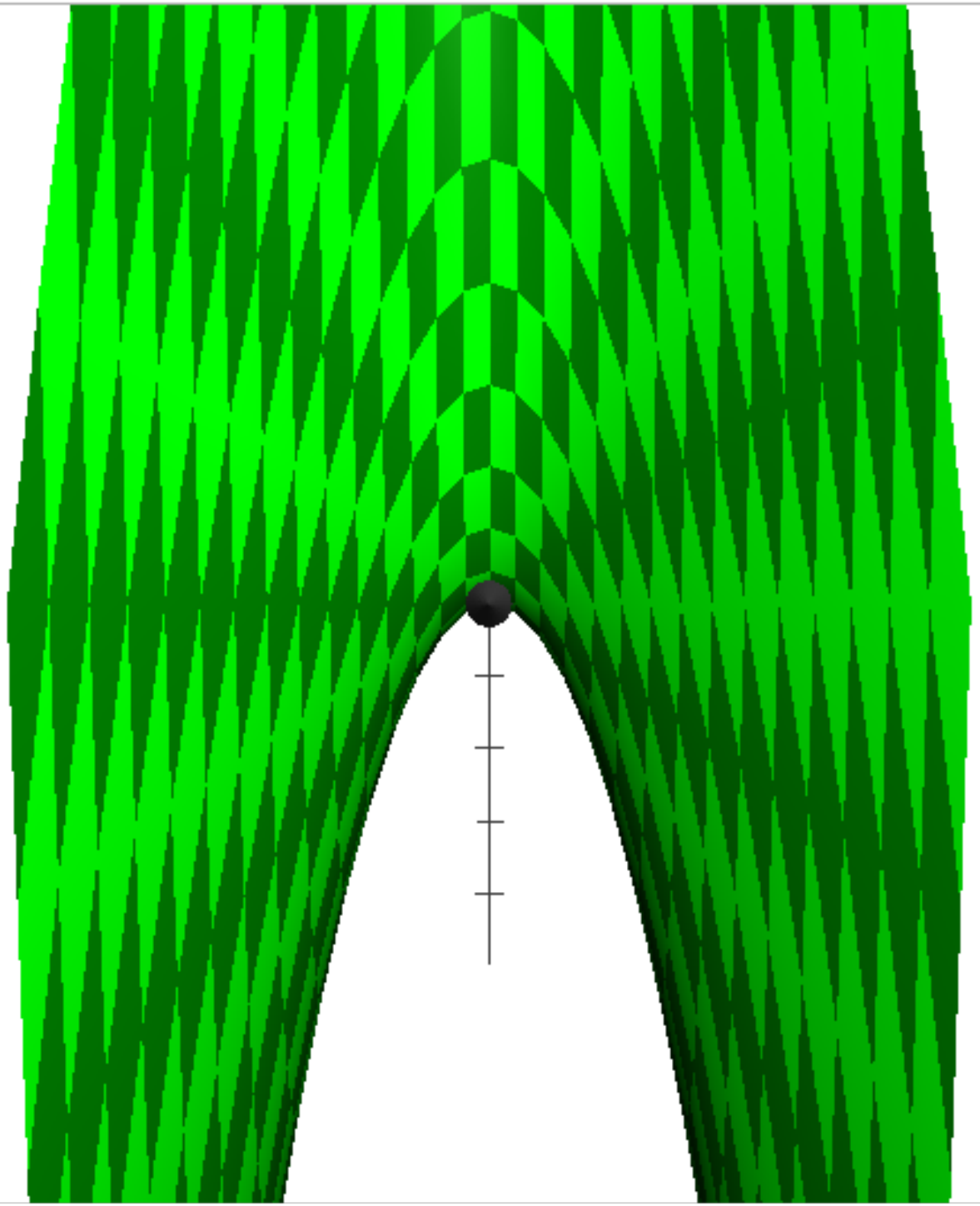

x^2-y^2
x^2-y^2
$-2=x^2-y^2$
$-1=x^2-y^2$
$0=x^2-y^2$
$1=x^2-y^2$
$2=x^2-y^2$
x^2+y^2
Multiple Equations Selected
2.5
y
z=-2
z=-1
z=0
z=2
z=1
z=1
z=2
-2.5
x
2.5
z=-1
z=-2
-2.5

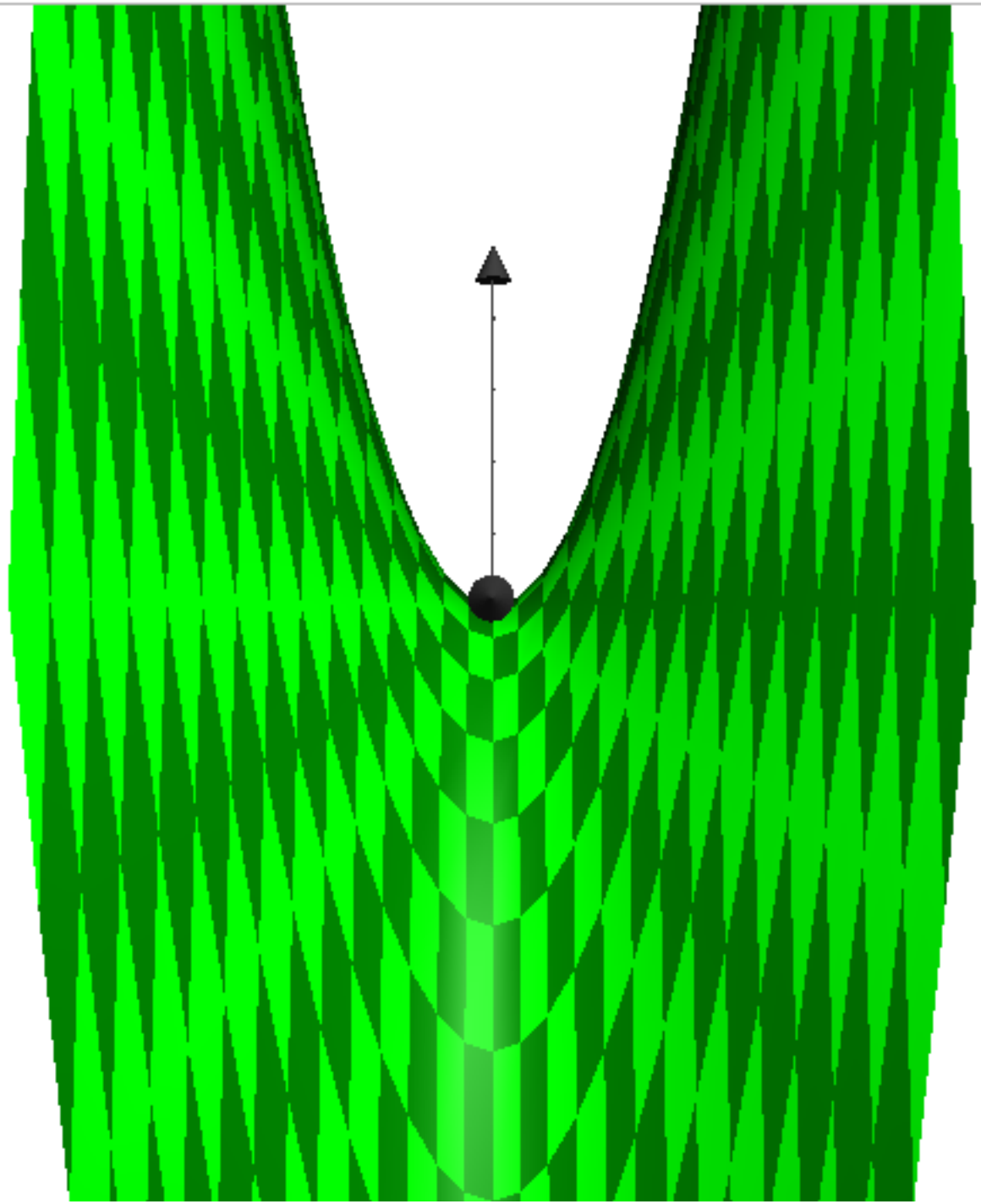
z=x^2-y^2



z=x^2-y^2

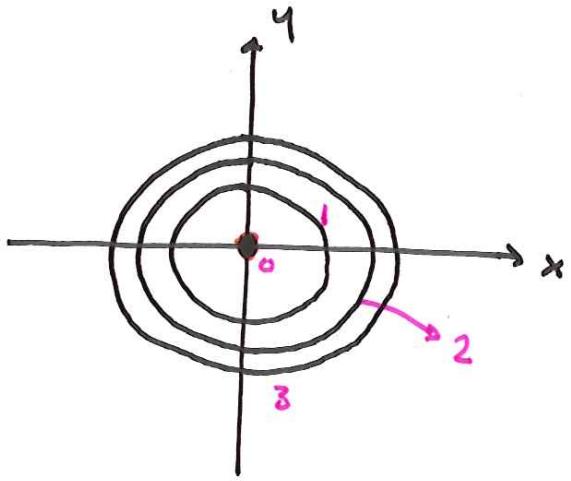


z=x^2-y^2

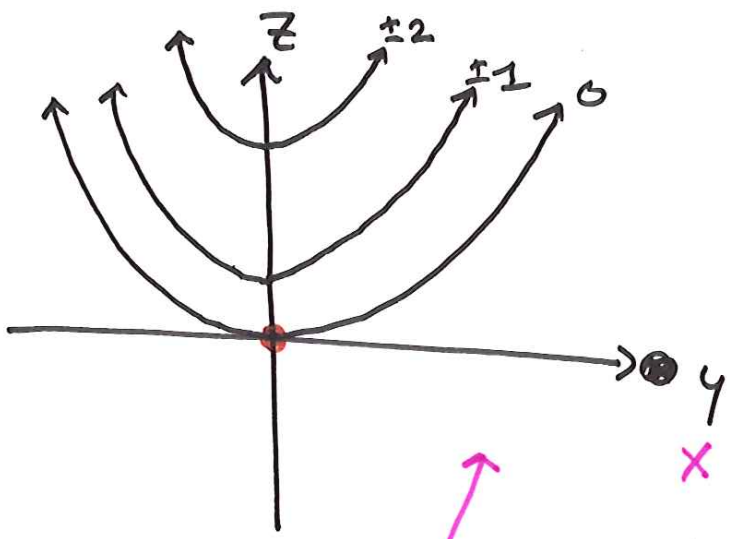


$z = x^2 + y^2$: domain is all (x, y)
range is all $z \geq 0$

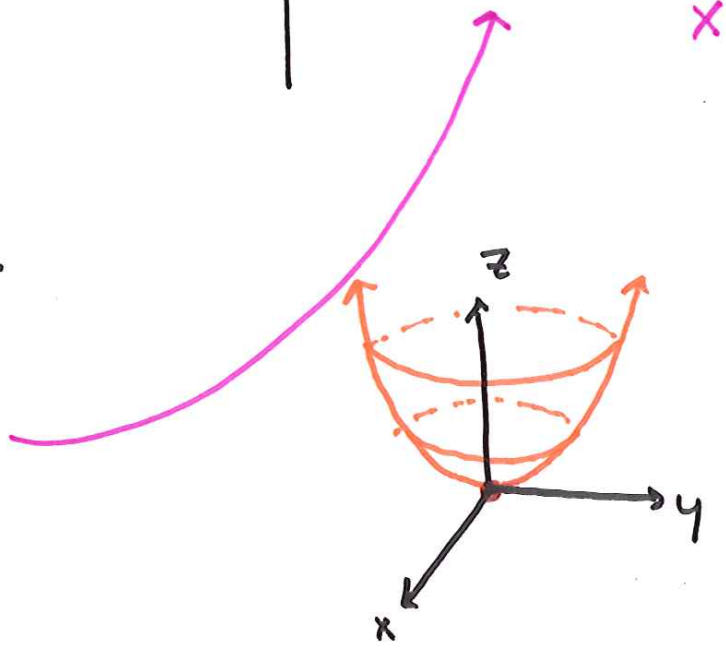
z	$z = x^2 + y^2$	
0	$x = y = 0$	
1	$1 = x^2 + y^2$	$r = 1$
2	$2 = x^2 + y^2$	$r = \sqrt{2}$
3	$3 = x^2 + y^2$	$r = \sqrt{3}$



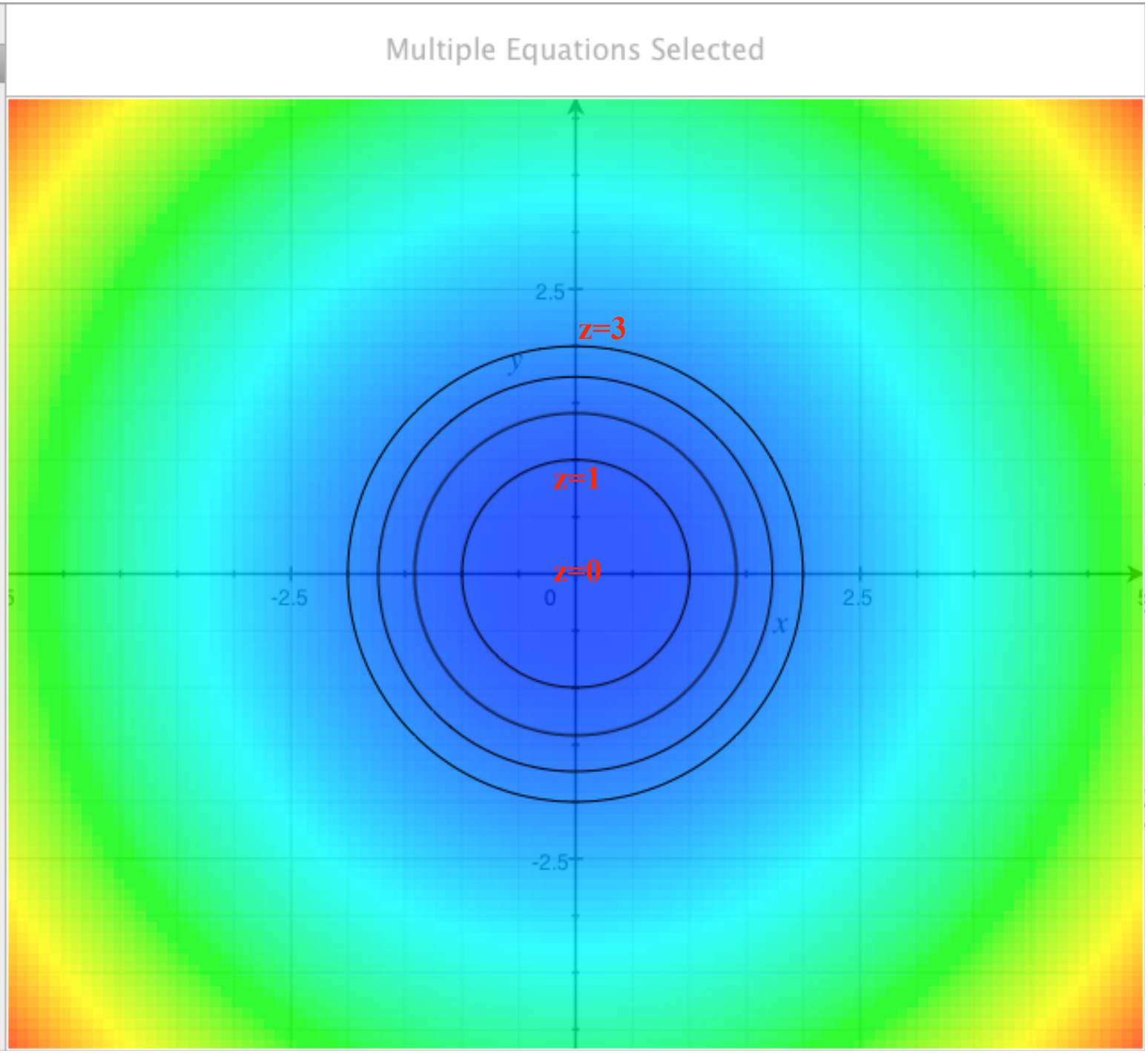
x	$z = x^2 + y^2$
0	$z = y^2$
± 1	$z = 1 + y^2$
± 2	$z = 4 + y^2$



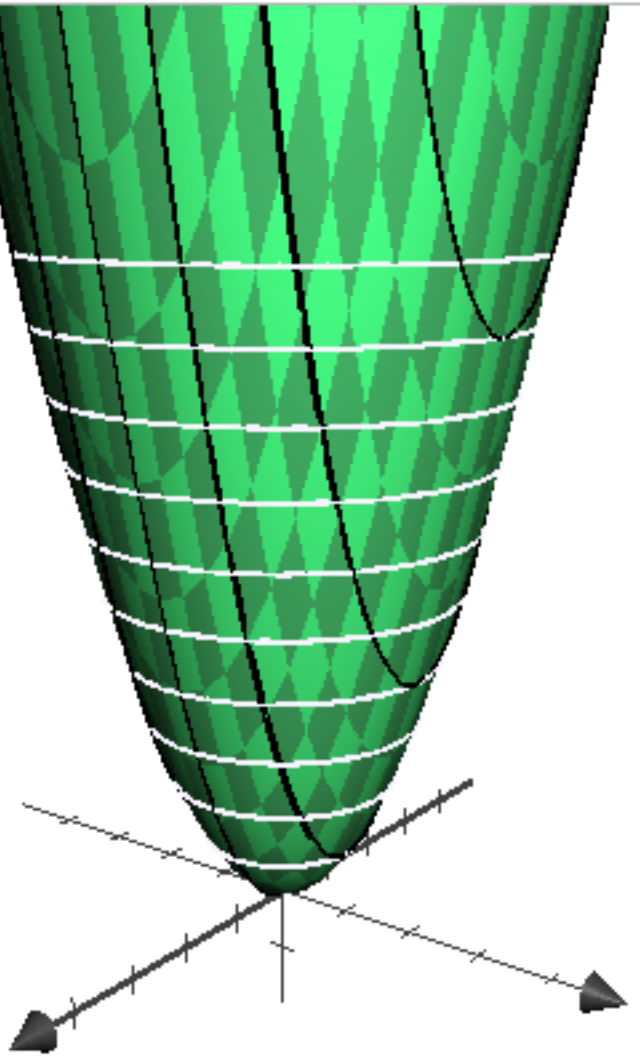
y	$z = x^2 + y^2$
0	$z = x^2$
± 1	$z = x^2 + 1$
± 2	$z = x^2 + 4$



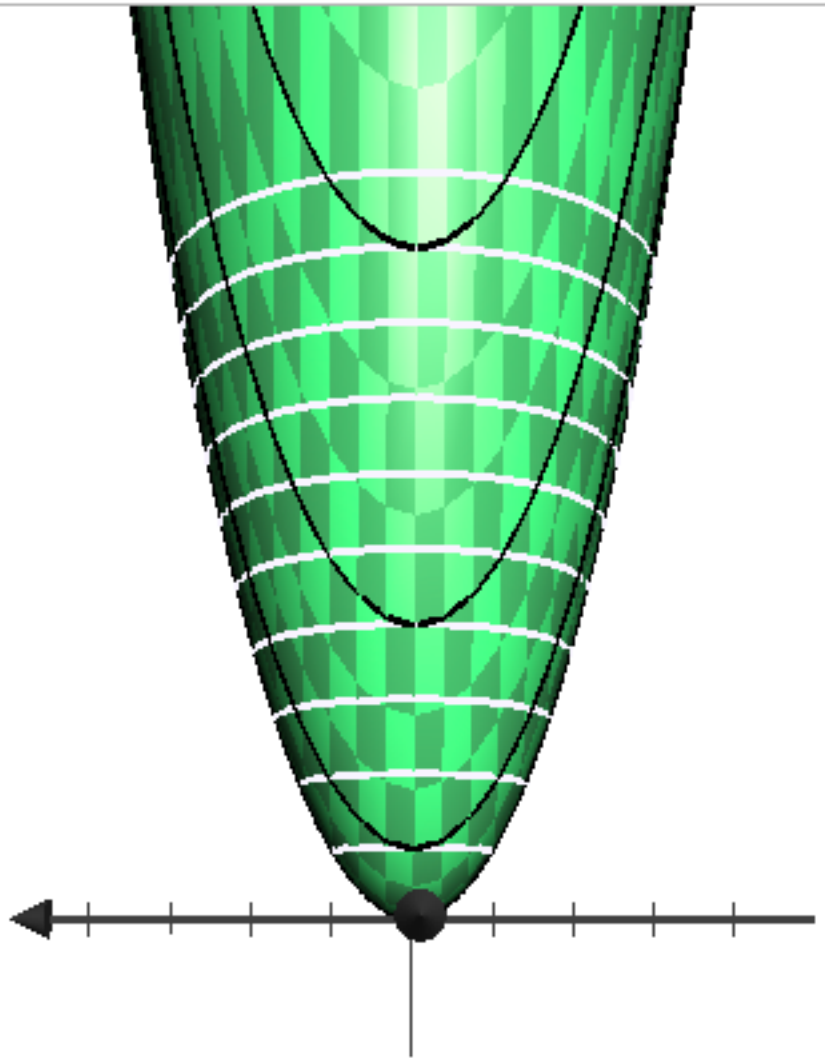
- [ ] ▶ x^2-y^2
- [x] ▼ x^2+y^2
  - [x] x^2+y^2
  - [x] $0=x^2+y^2$
  - [x] $1=x^2+y^2$
  - [x] $2=x^2+y^2$
  - [x] $3=x^2+y^2$
  - [x] $4=x^2+y^2$



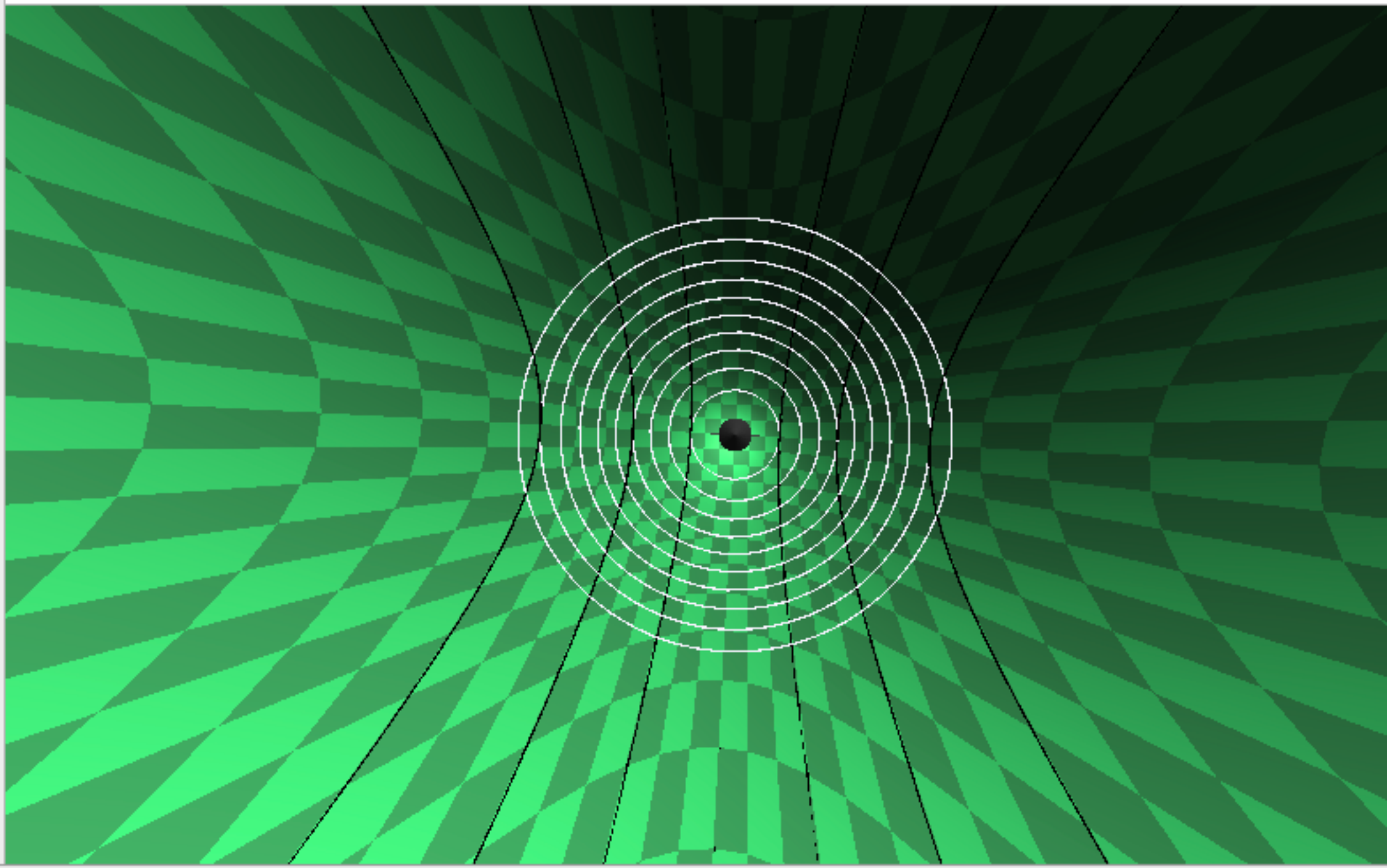
$z=x^2+y^2$



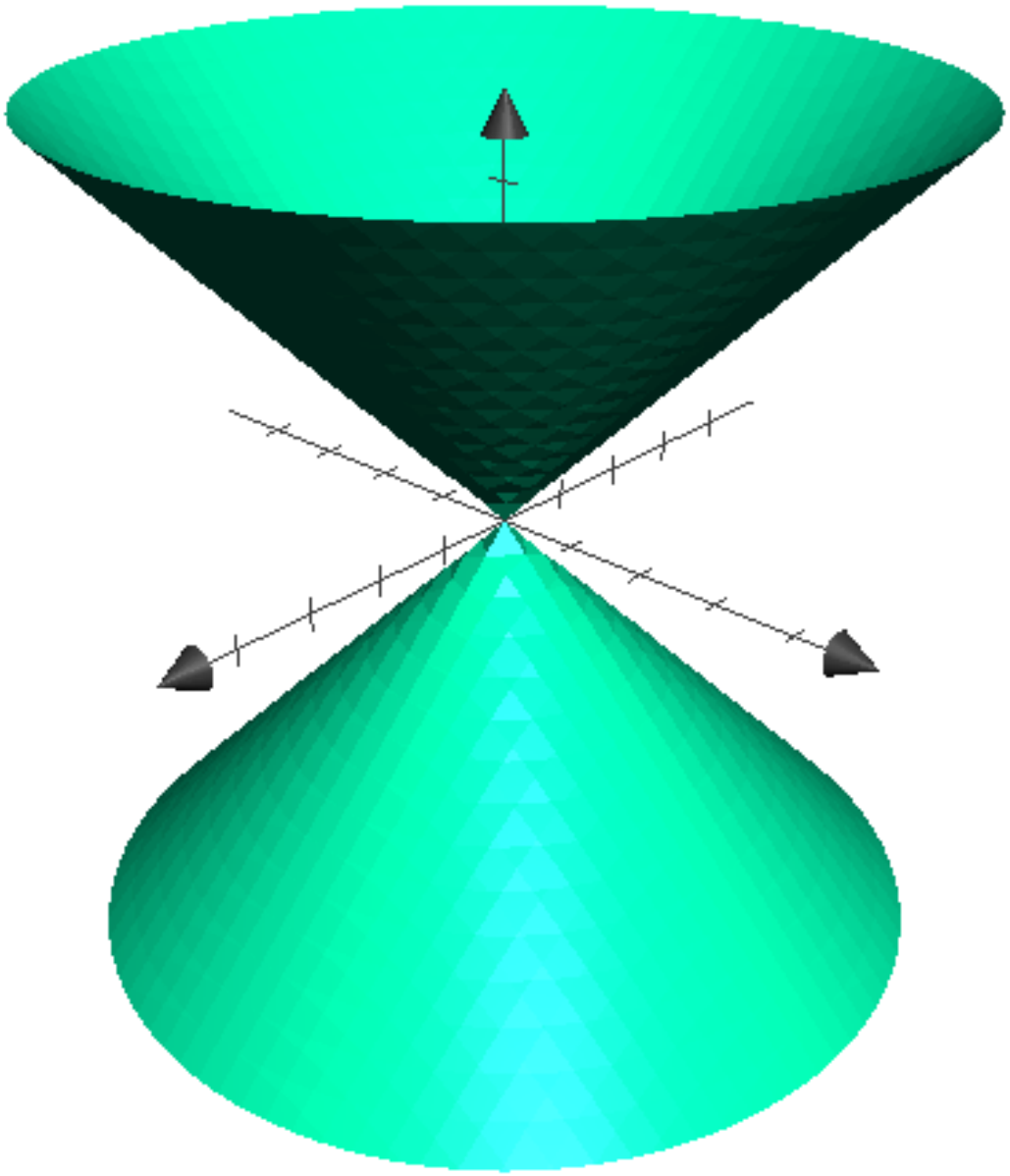
$z=x^2+y^2$



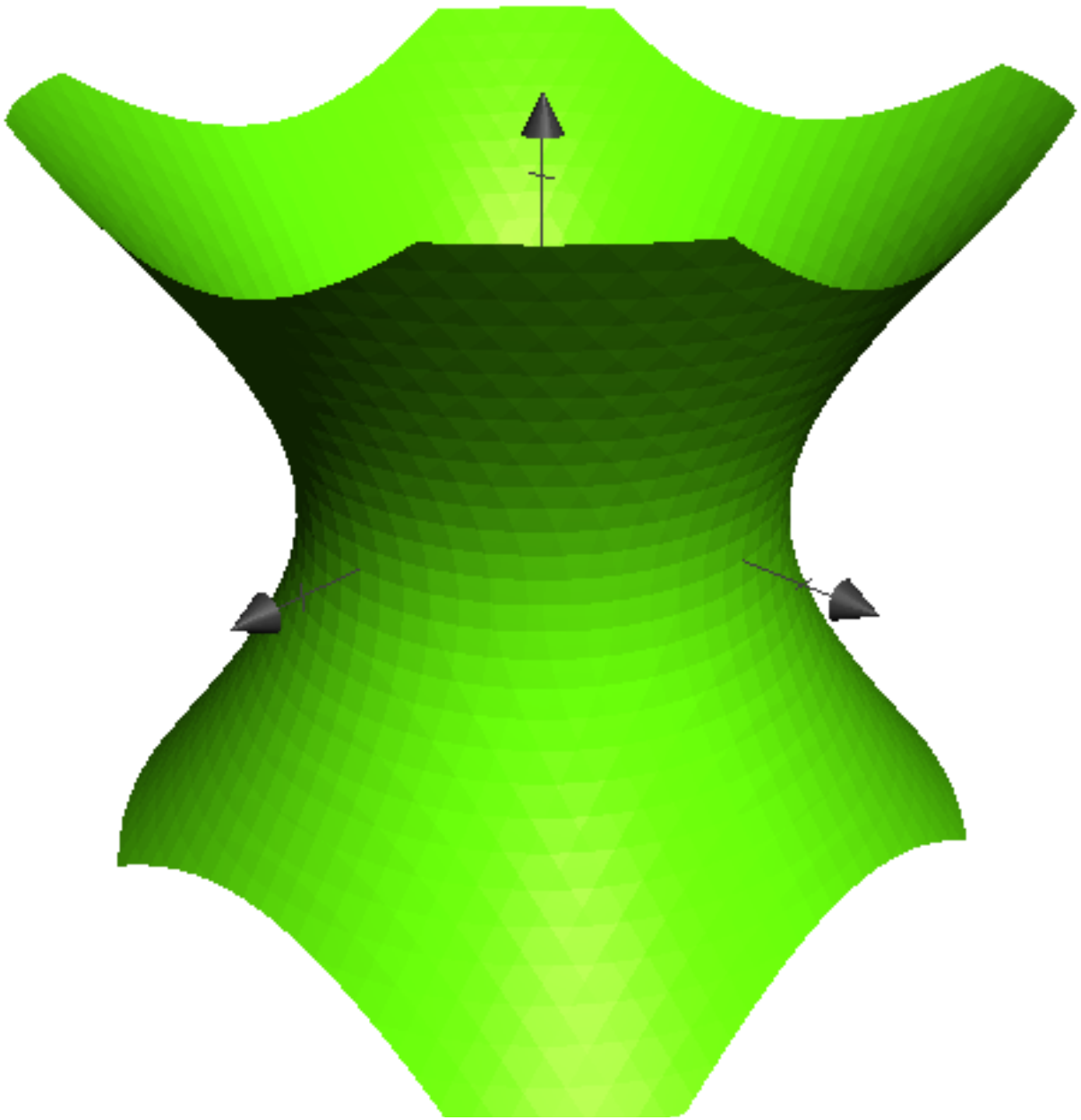
$z=x^2+y^2$



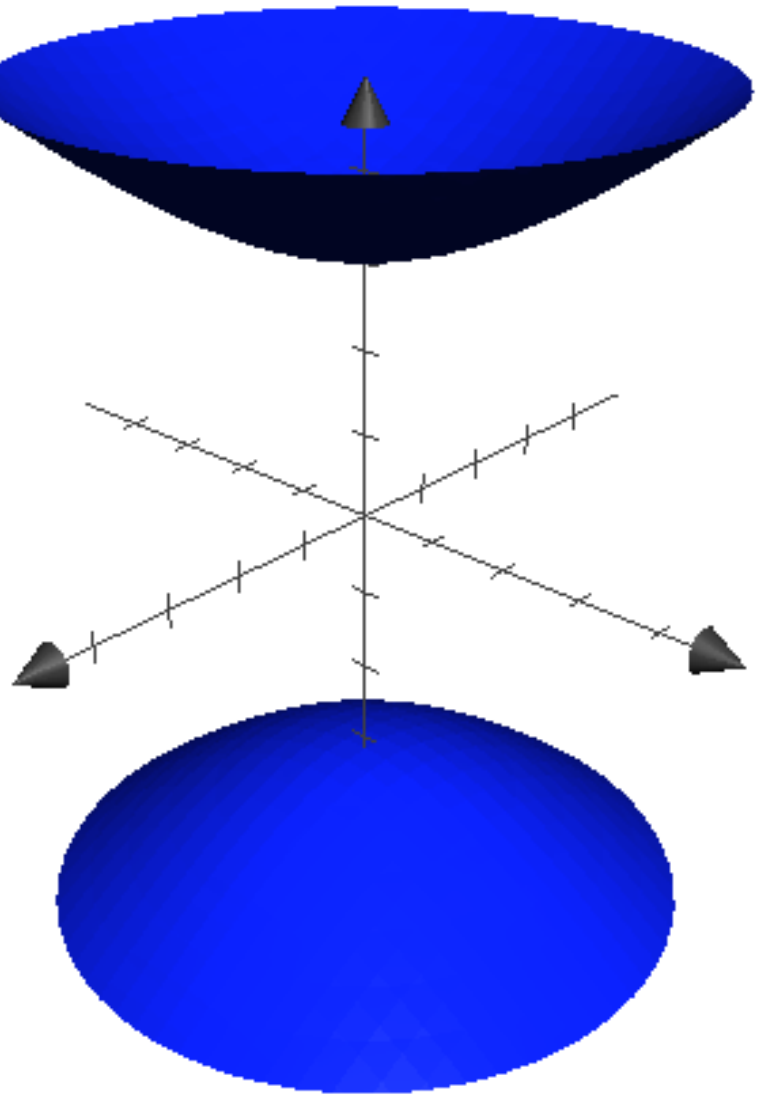
$x^2+y^2-z^2=0$



$x^2+y^2-z^2=10$

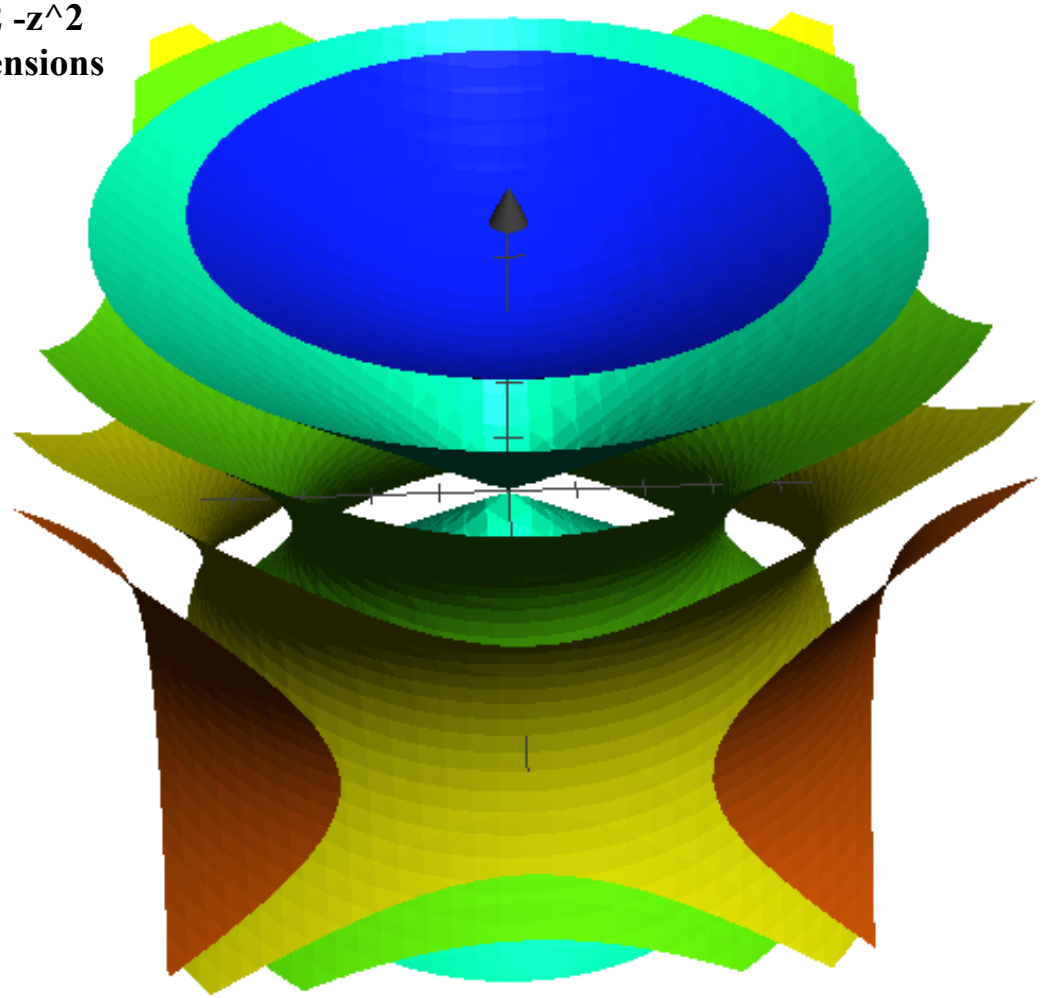


$x^2+y^2-z^2=-10$



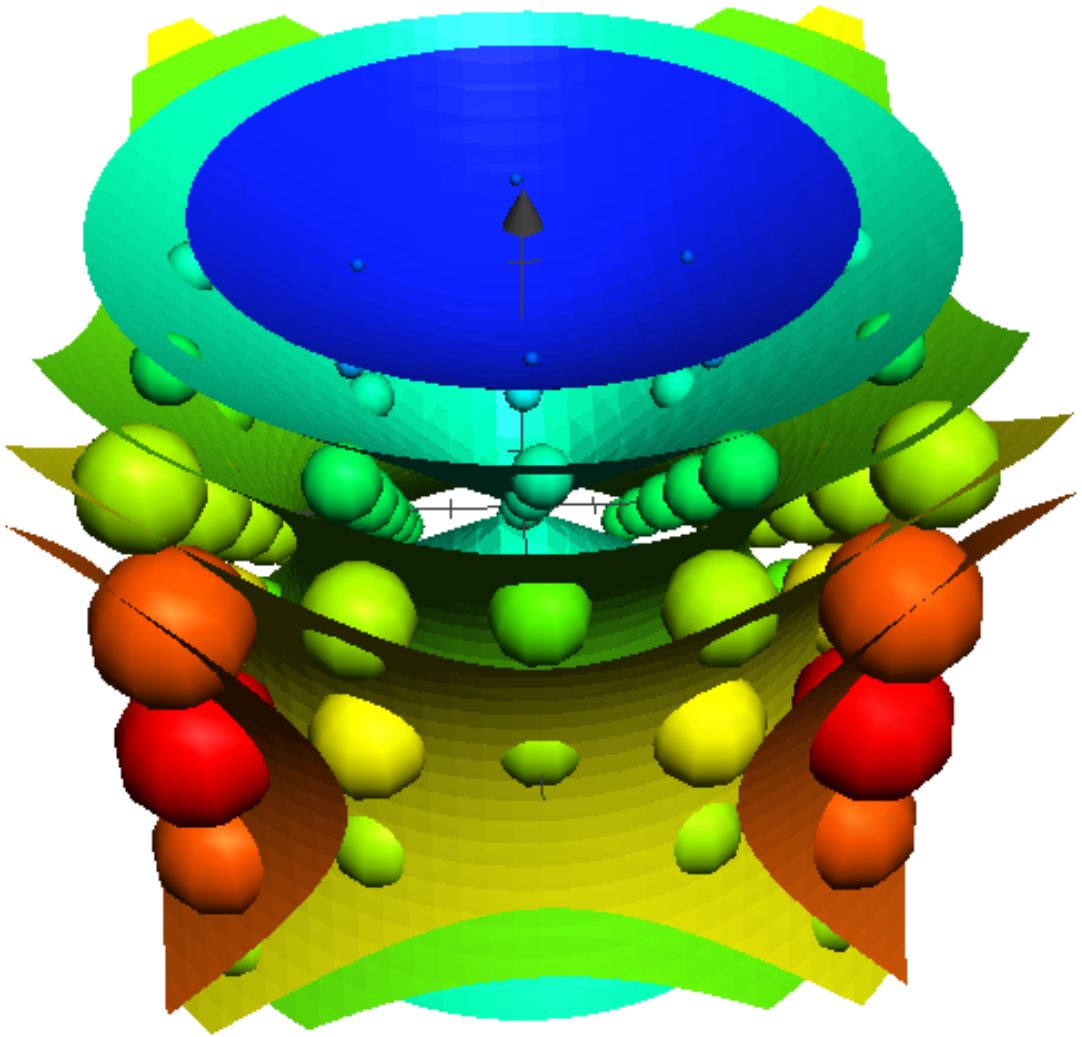
- [x] $x^2+y^2-z^2=-10$
- [x] $x^2+y^2-z^2=0$
- [x] $x^2+y^2-z^2=10$
- [x] $x^2+y^2-z^2=20$
- [x] $x^2+y^2-z^2=30$
- [ ] $x^2+y^2-z^2$

Seeing the four dimensional graph of
t=x^2 + y^2 -z^2
in three dimensions



- [x] $x^2+y^2-z^2=-10$
- [x] $x^2+y^2-z^2=0$
- [x] $x^2+y^2-z^2=10$
- [x] $x^2+y^2-z^2=20$
- [x] $x^2+y^2-z^2=30$
- [x] $x^2+y^2-z^2$

$x^2+y^2-z^2$



$x^2+y^2-z^2$