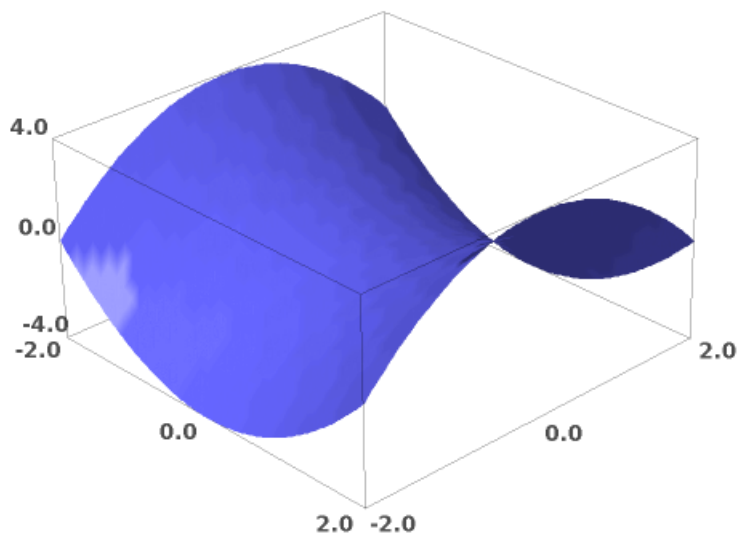


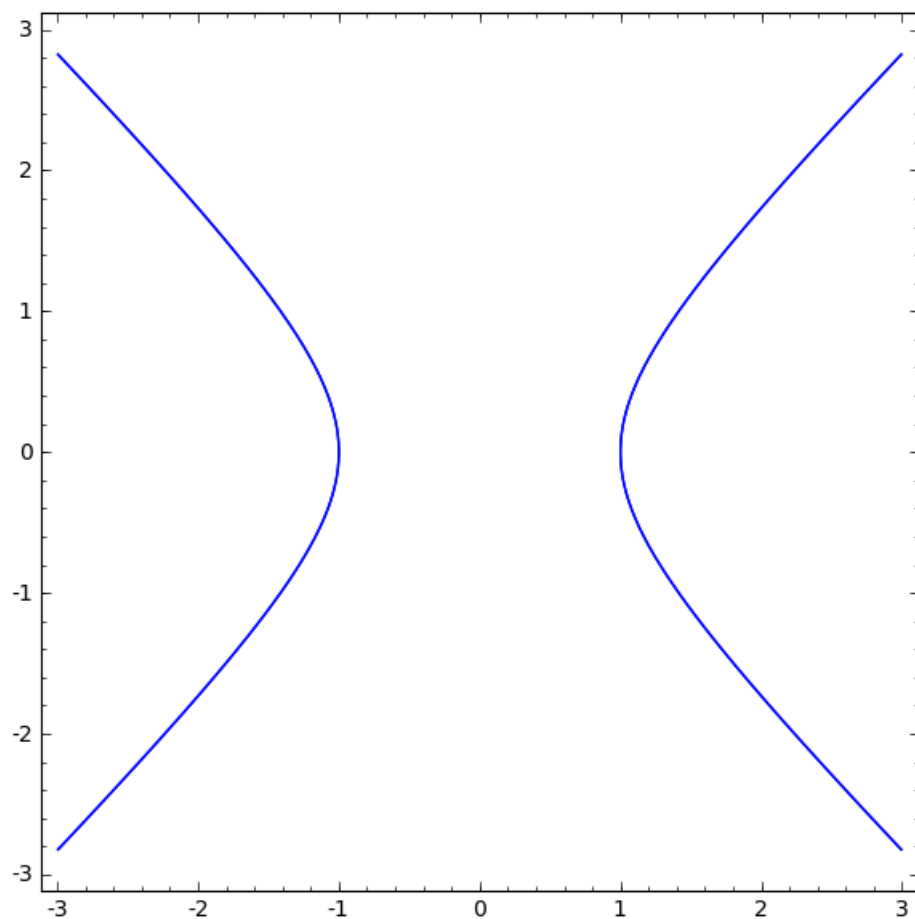
# graficasFunciones

```
x,y=var('x,y')  
f(x,y)=x^2-y^2  
plot3d(f(x,y),(x,-2,2),(y,-2,2))
```

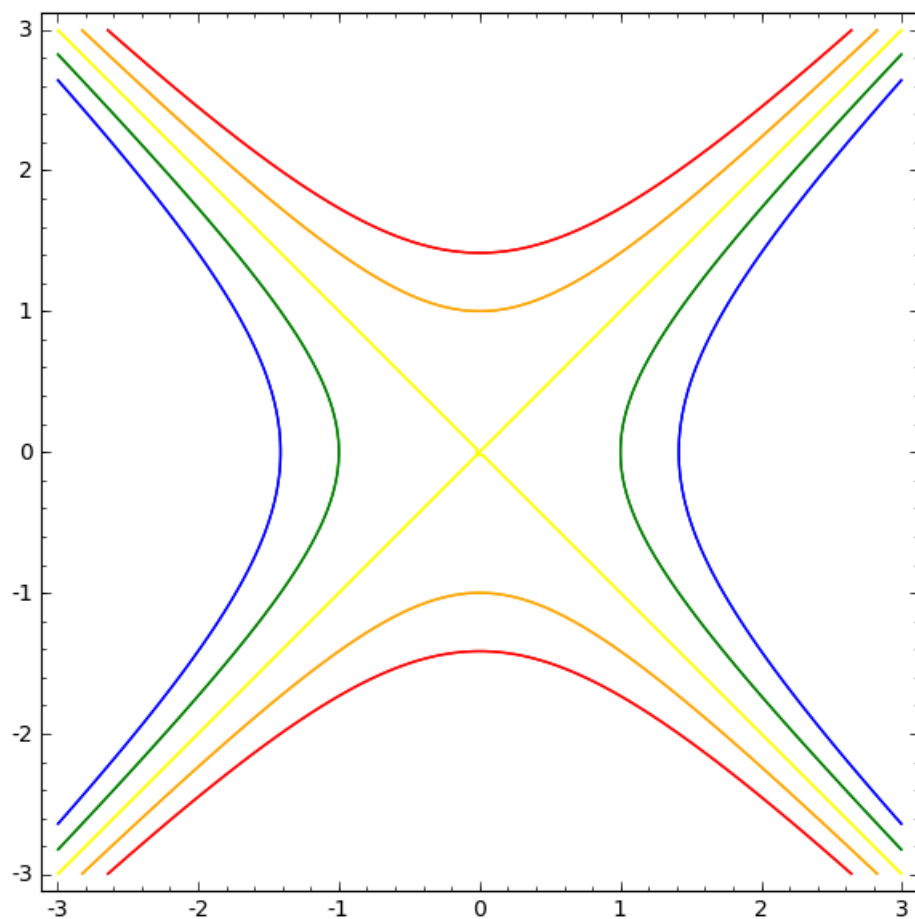
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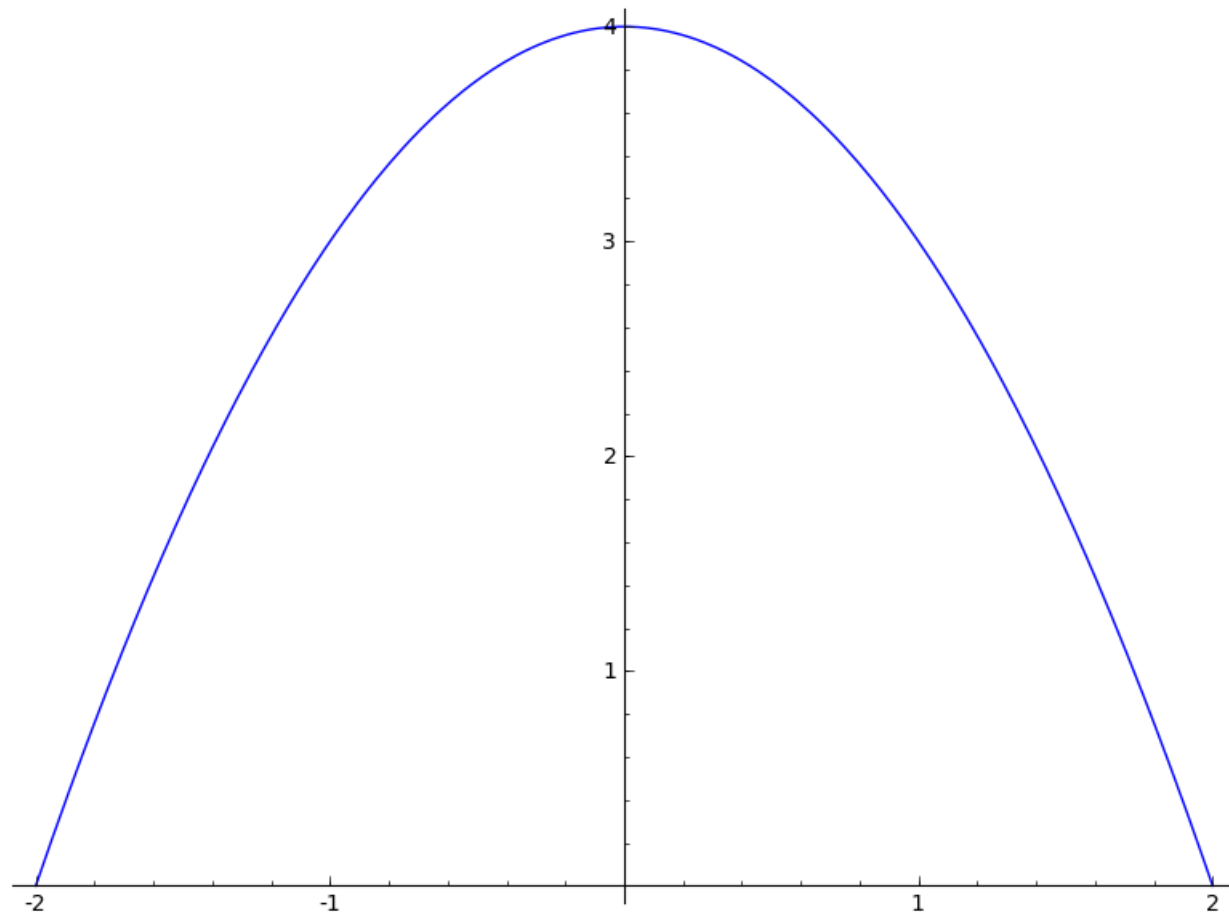
```
implicit_plot(x^2-y^2==1, (x, -3, 3), (y, -3,3),color="blue")
```



```
c0=implicit_plot(x^2-y^2==2, (x, -3, 3), (y, -3,3),color="red")
c1=implicit_plot(x^2-y^2==1, (x, -3, 3), (y, -3,3),color="orange")
c2=implicit_plot(x^2-y^2==0, (x, -3, 3), (y, -3,3),color="yellow")
c3=implicit_plot(x^2-y^2==1, (x, -3, 3), (y, -3,3),color="green")
c4=implicit_plot(x^2-y^2==2, (x, -3, 3), (y, -3,3),color="blue")
c=c0+c1+c2+c3+c4
show(c)
```

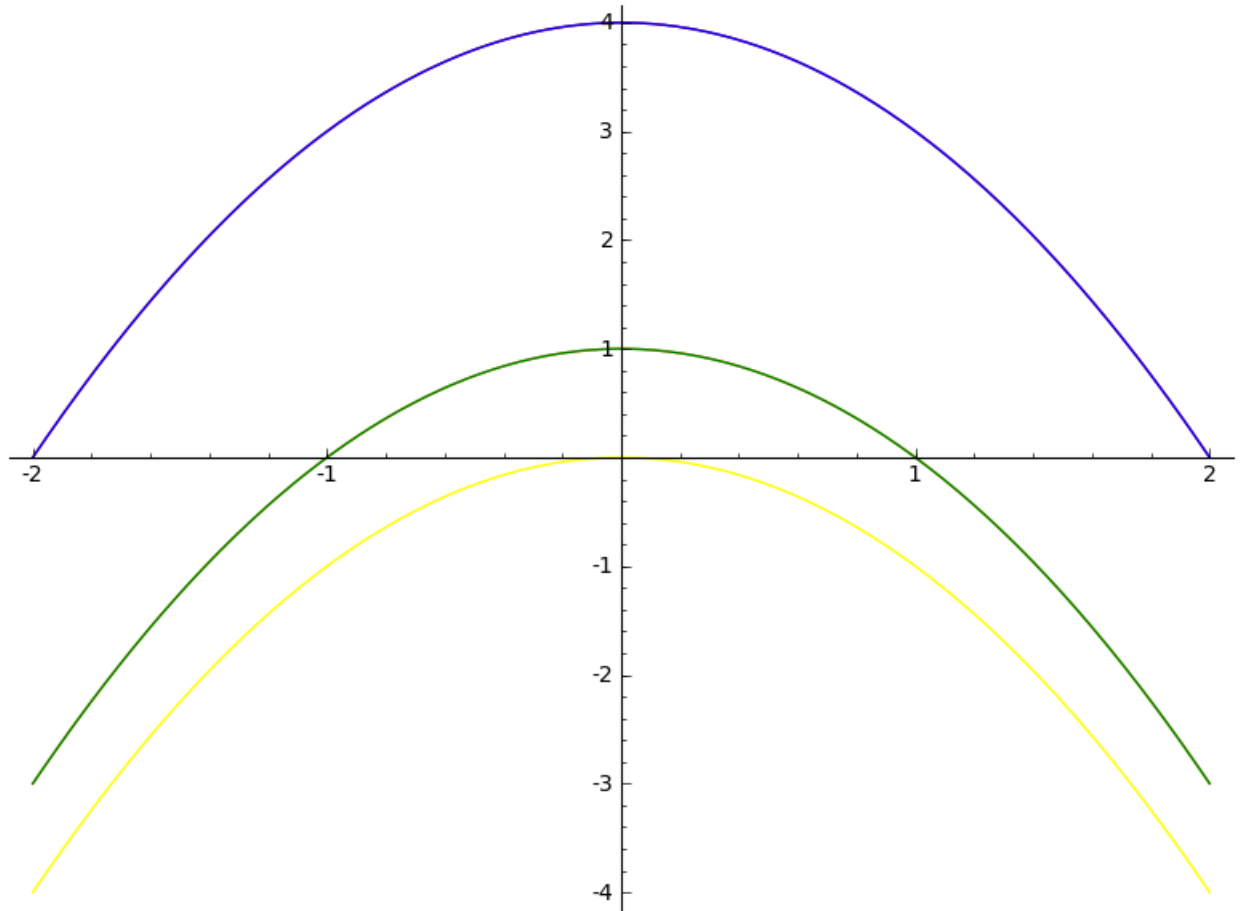


```
plot((2)^2-y^2,(y,-2,2),color="blue")
```

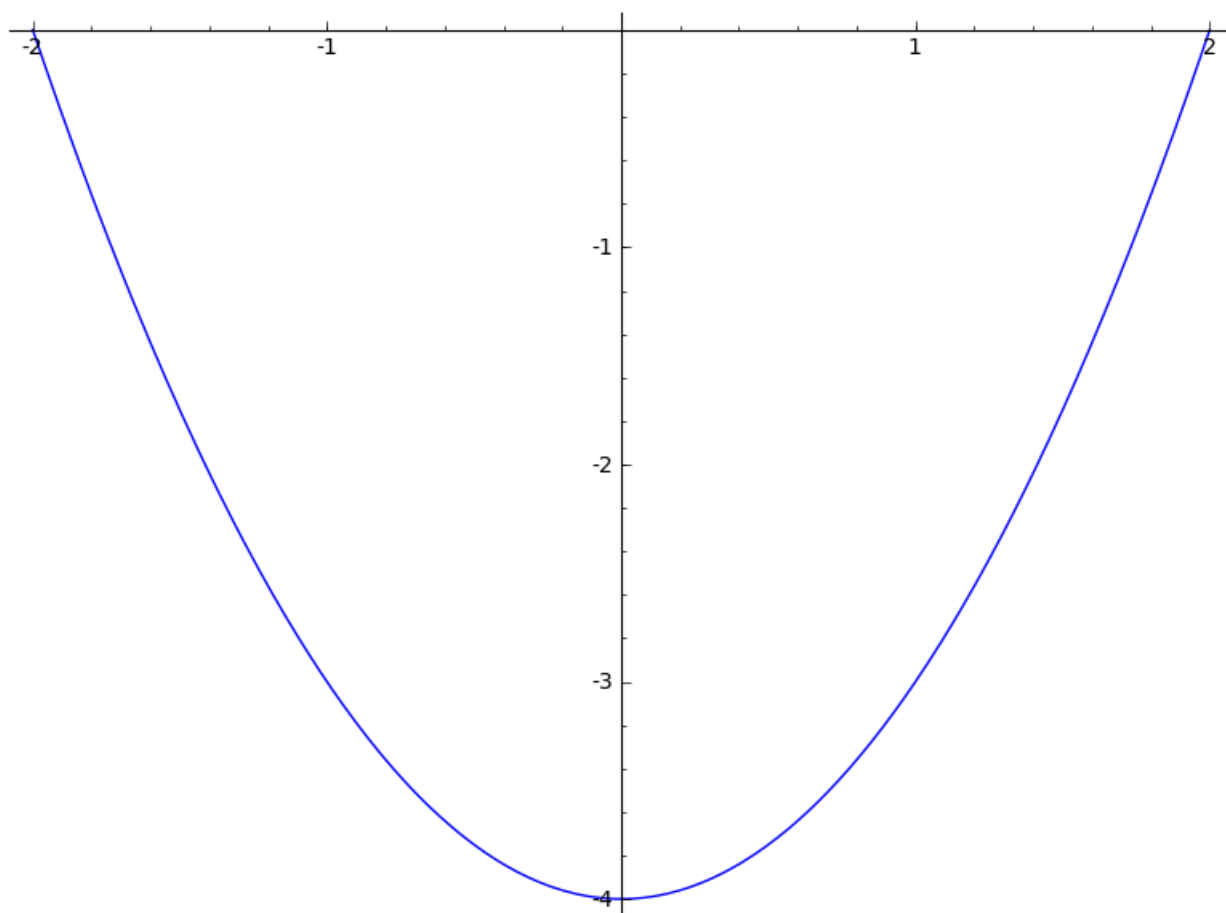


```
s0=plot((-2)^2-y^2,(y,-2,2),color="red")
```

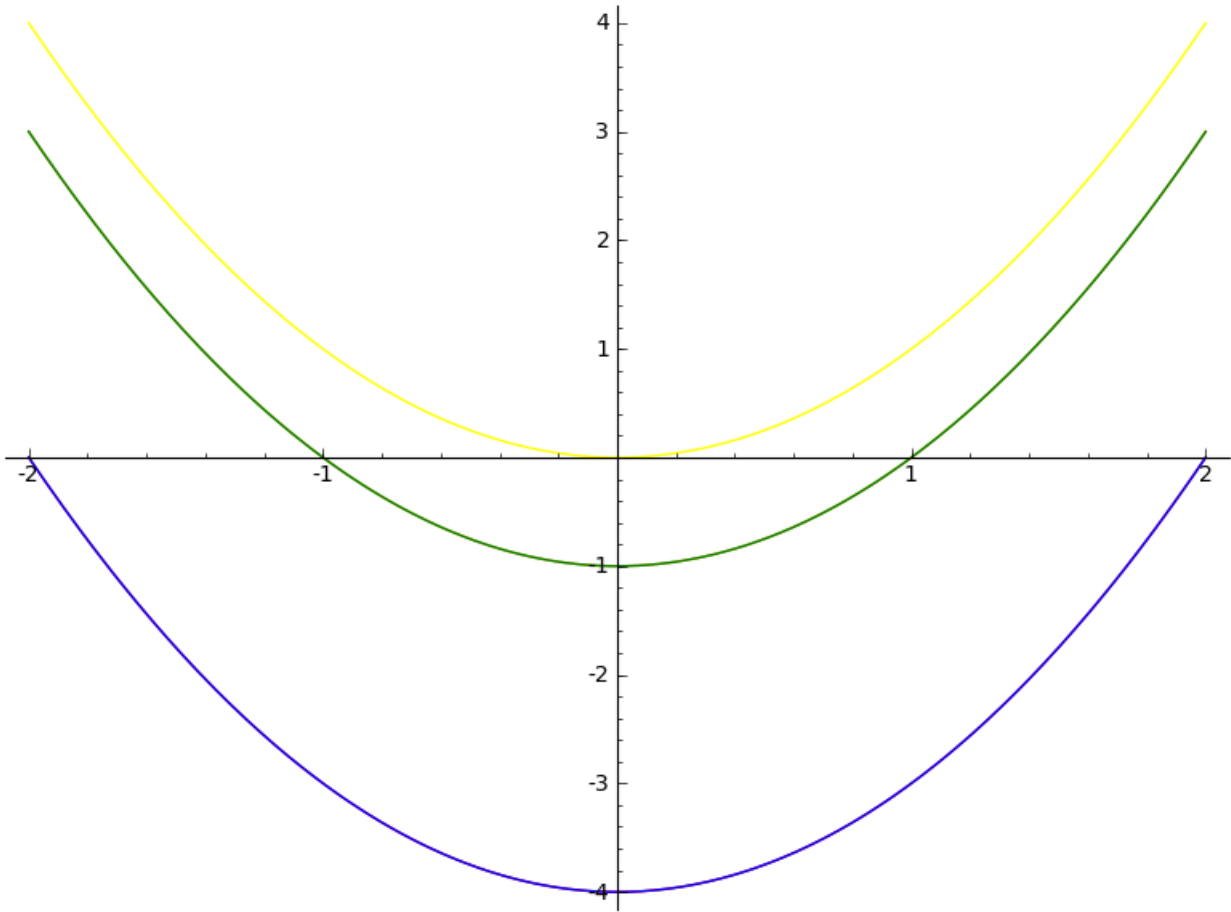
```
s1=plot((-1)^2-y^2,(y,-2,2),color="orange")
s2=plot((0)^2-y^2,(y,-2,2),color="yellow")
s3=plot((1)^2-y^2,(y,-2,2),color="green")
s4=plot((2)^2-y^2,(y,-2,2),color="blue")
s=s0+s1+s2+s3+s4
show(s)
```



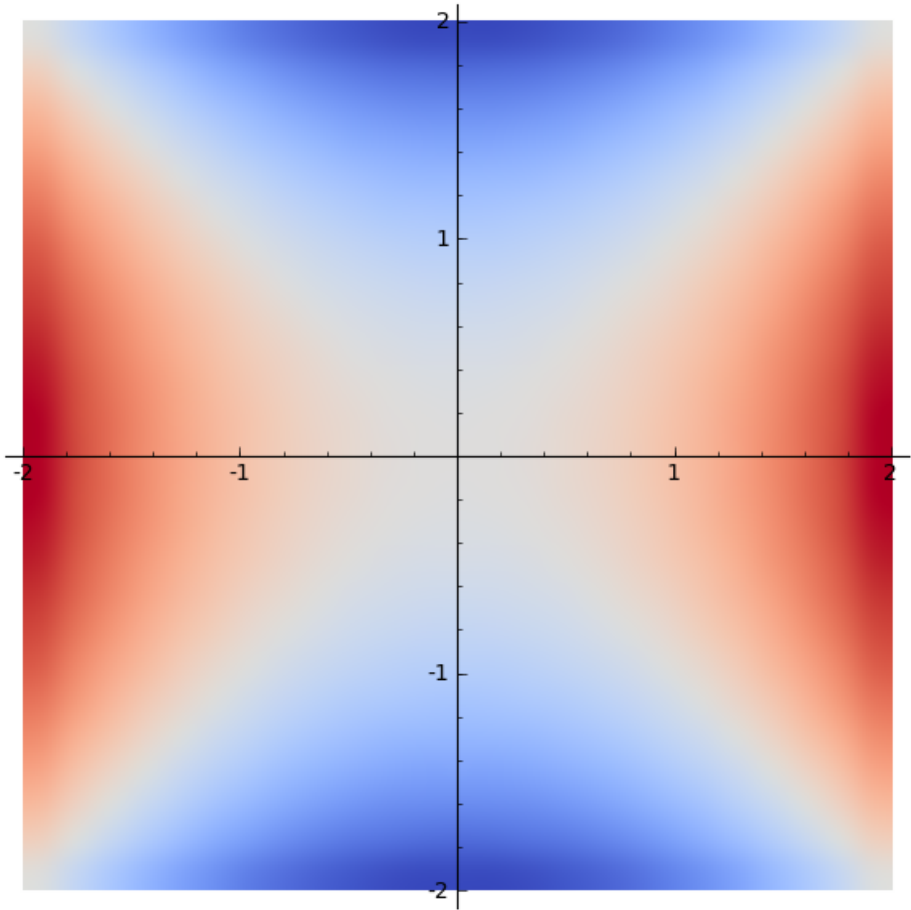
```
plot(x^2-(2)^2,(x,-2,2),color="blue")
```



```
s0=plot(x^2-(-2)^2,(x,-2,2),color="red")
s1=plot(x^2-(-1)^2,(x,-2,2),color="orange")
s2=plot(x^2-(0)^2,(x,-2,2),color="yellow")
s3=plot(x^2-(1)^2,(x,-2,2),color="green")
s4=plot(x^2-(2)^2,(x,-2,2),color="blue")
s=s0+s1+s2+s3+s4
show(s)
```



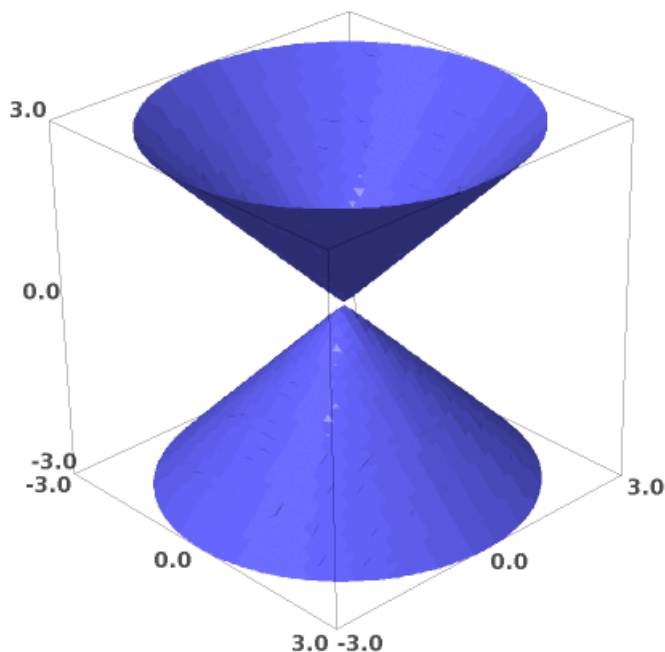
```
density_plot(f(x,y),(x,-2,2),(y,-2,2),cmap='coolwarm')
```



```
x,y,z=var('x,y,z')
```

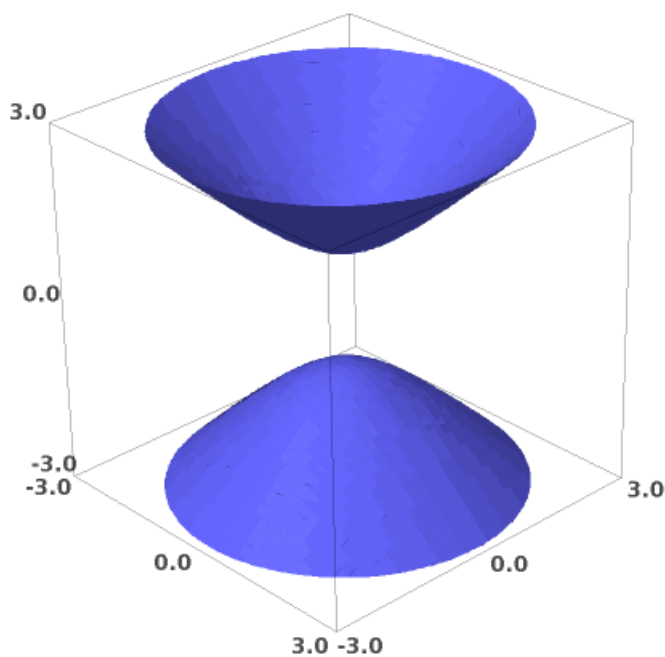
```
implicit_plot3d(x^2+y^2-z^2==0,(x,-3,3),(y,-3,3),(z,-3,3))
```

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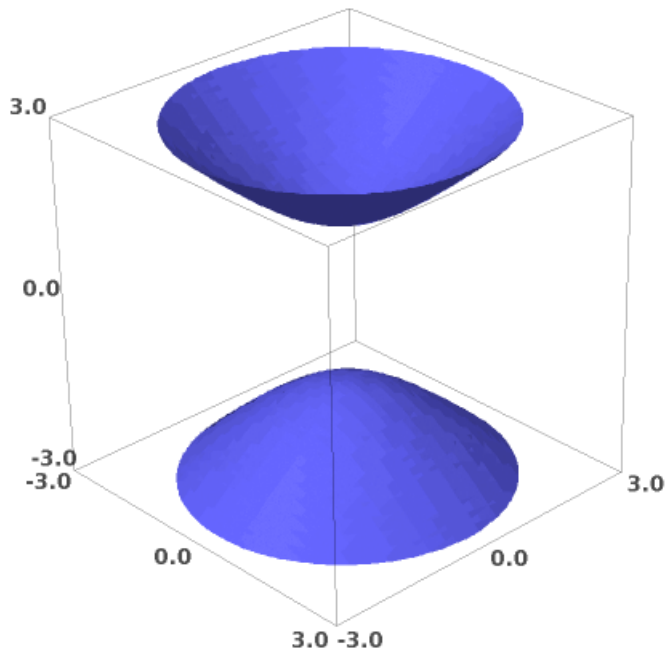
```
implicit_plot3d(x^2+y^2-z^2==-1,(x,-3,3),(y,-3,3),(z,-3,3))
```

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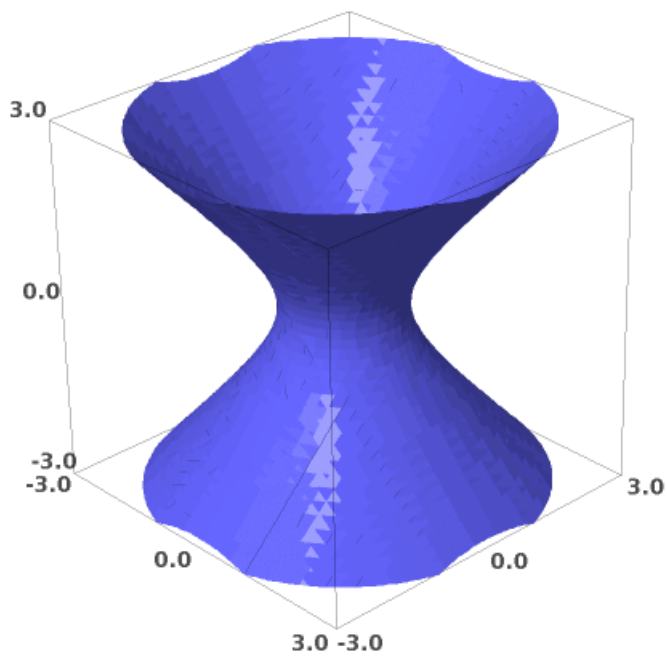
```
implicit_plot3d(x^2+y^2-z^2==-2,(x,-3,3),(y,-3,3),(z,-3,3))
```

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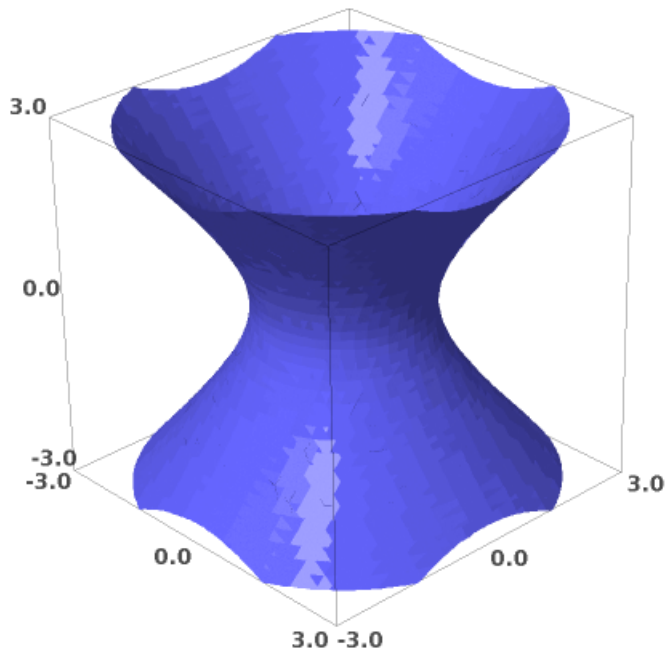
```
implicit_plot3d(x^2+y^2-z^2==1,(x,-3,3),(y,-3,3),(z,-3,3))
```

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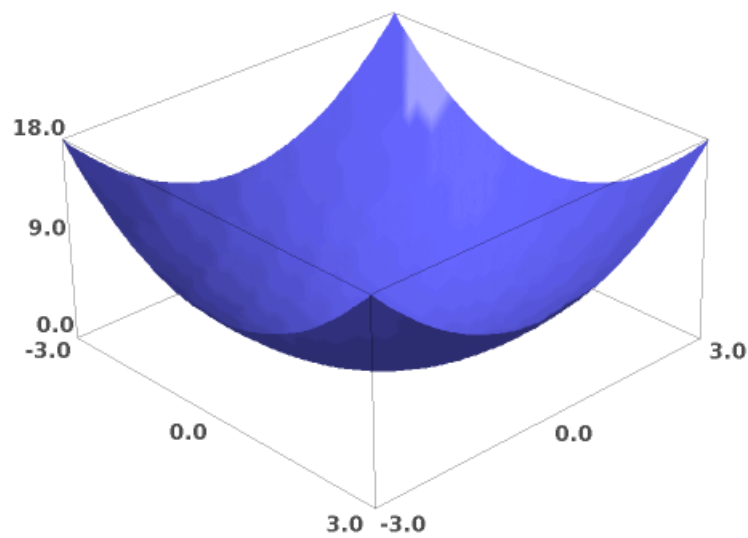
```
implicit_plot3d(x^2+y^2-z^2==2,(x,-3,3),(y,-3,3),(z,-3,3))
```

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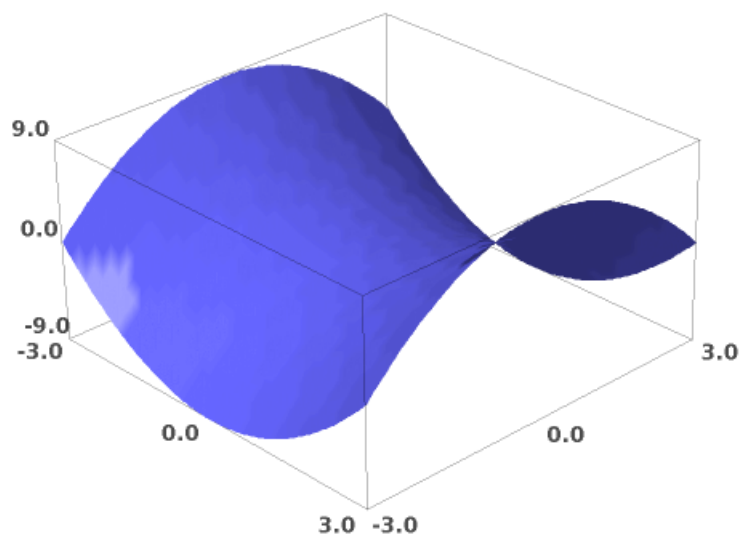
```
plot3d(x^2+y^2,(x,-3,3),(y,-3,3))
```

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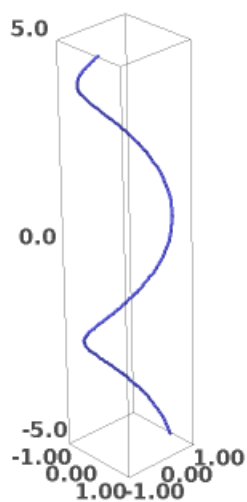
```
plot3d(x^2-z^2,(x,-3,3),(z,-3,3))
```

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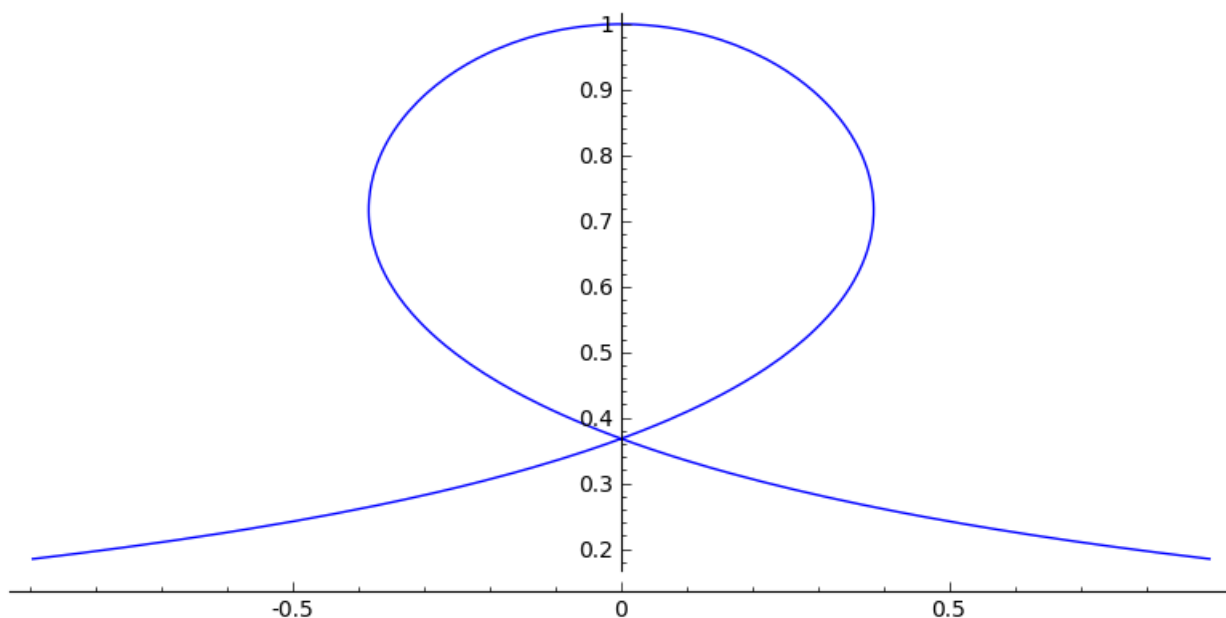


```
parametric_plot((cos(z),sin(z),z),(z,-5,5),thickness=4)
```

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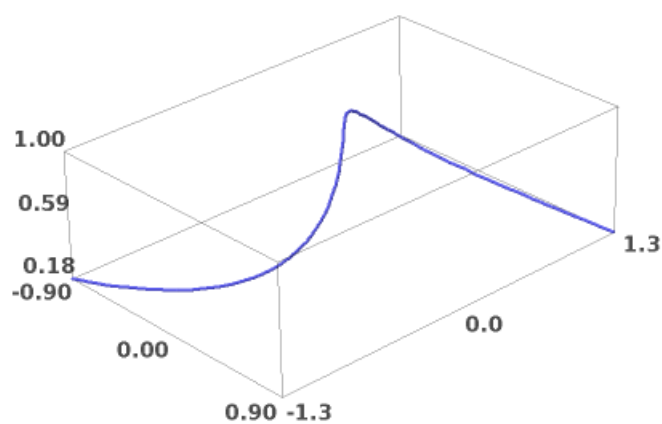


```
parametric_plot((z^3-z,e^(-z^2)),(z,-1.3,1.3))
```



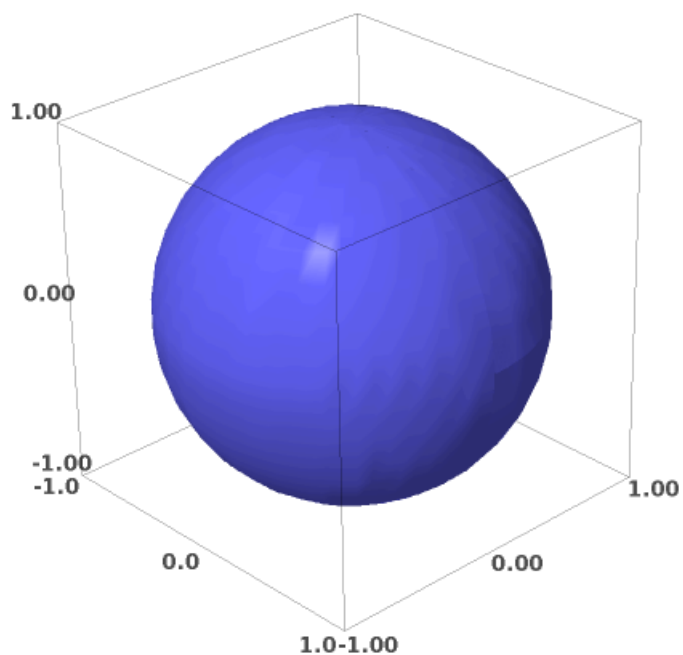
```
parametric_plot((z^3-z,z,e^(-z^2)),(z,-1.3,1.3),thickness=4)
```

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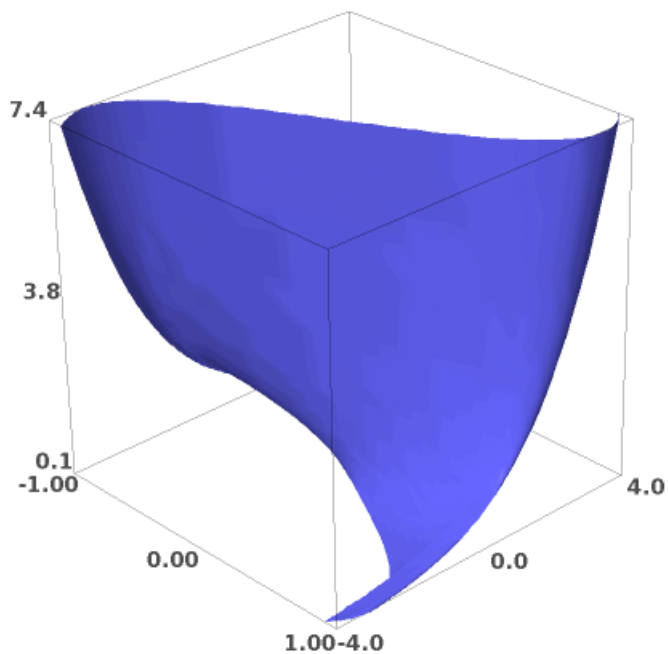
```
parametric_plot3d((cos(x)*cos(y),sin(x)*cos(y),sin(y)), (y, 0, 2*pi), (x, 0, pi))
```

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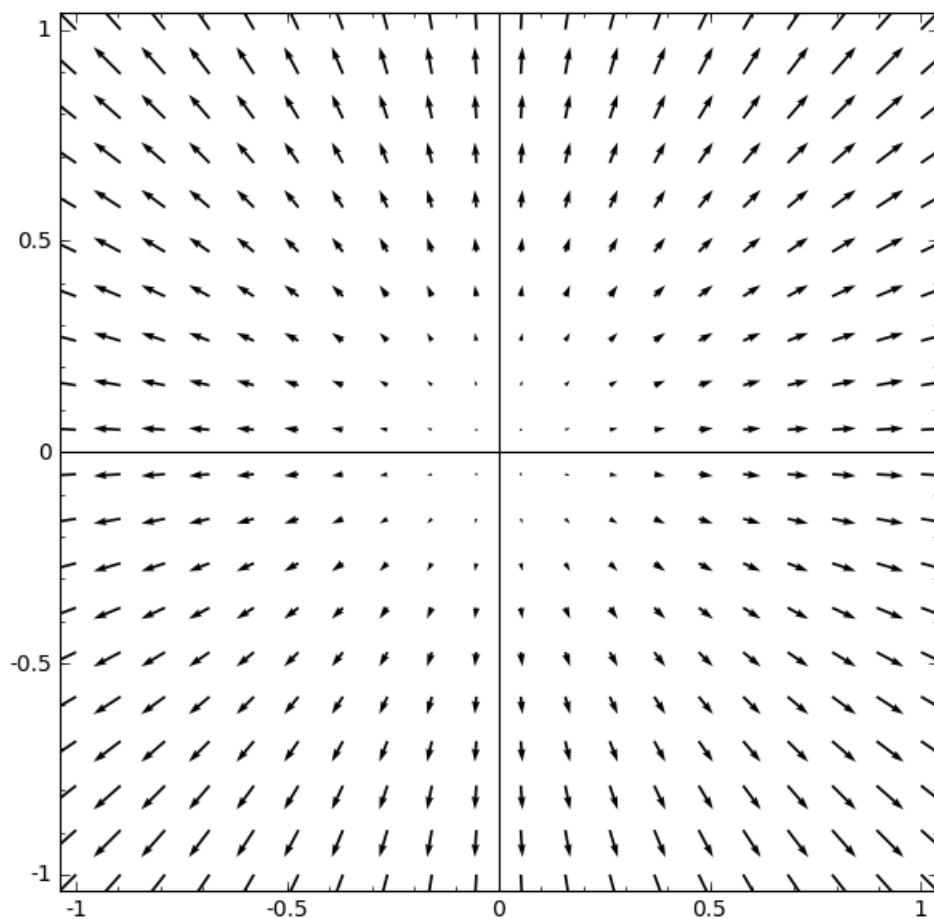


```
parametric_plot3d((sin(x),y*x,e^y),(x,-2,2),(y,-2,2))
```

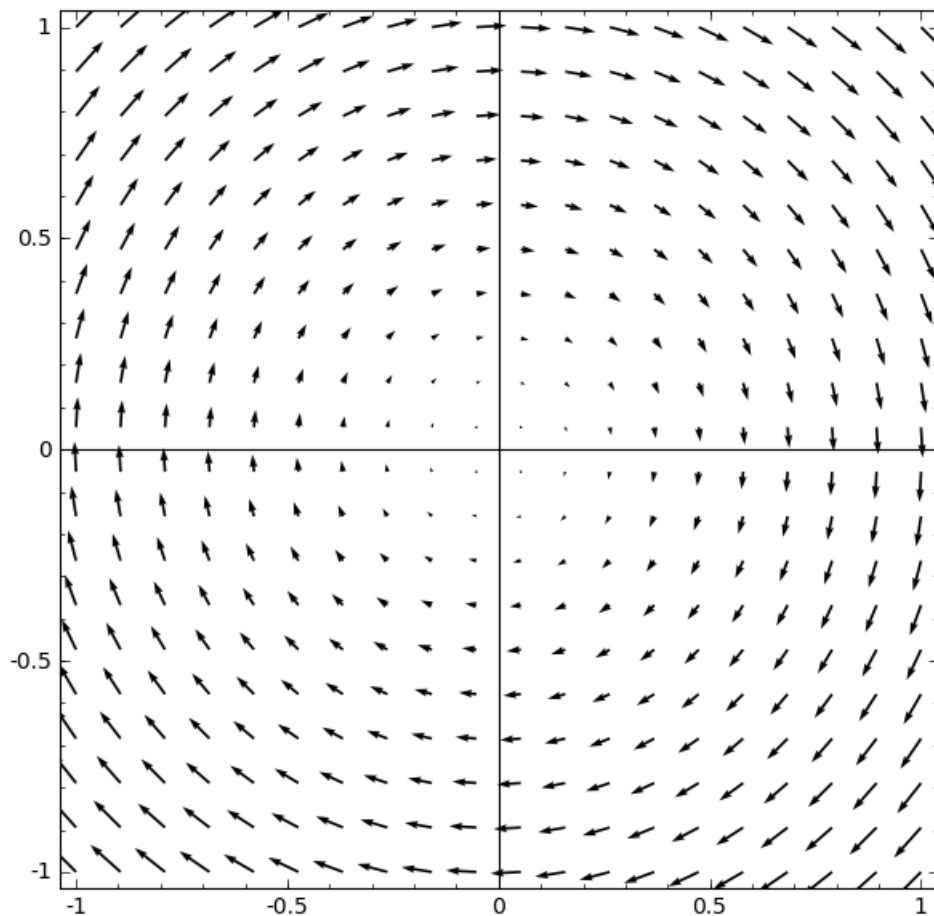
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```
plot_vector_field((x,y),(x,-1,1),(y,-1,1),aspect_ratio=1)
```



```
plot_vector_field((y,-x),(x,-1,1),(y,-1,1),aspect_ratio=1)
```



```
plot_vector_field3d((y,-x,z),(x,-1,1),(y,-1,1),
```

(z,-1,1),aspect\_ratio=1,thickness=2)

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