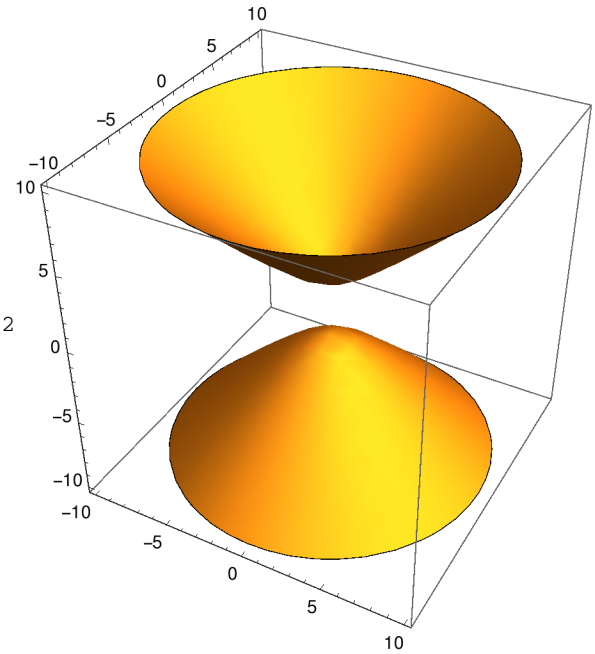
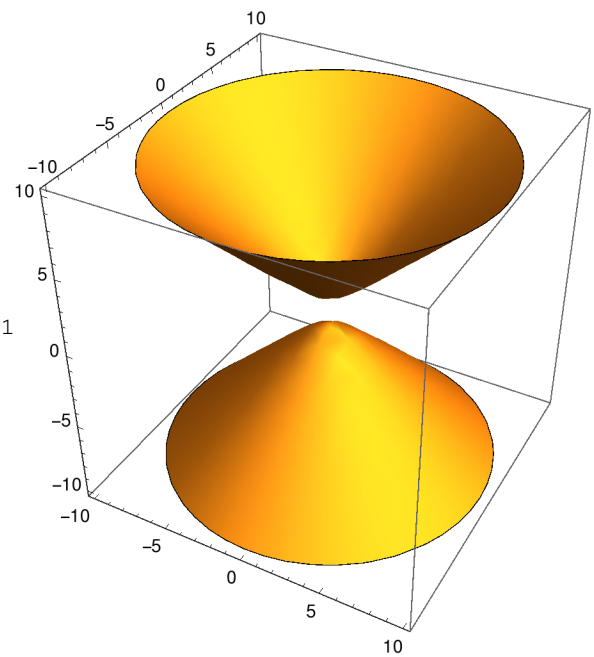
In[9]:=
```
a = 1; b = 1; c = -1;
```

In[10]:=
```
Do[Print[a x^2 + b y^2 + c z^2 == r,
  ContourPlot3D[a x^2 + b y^2 + c z^2 == Sign[r] r^2, {x, -10, 10}, {y, -10, 10},
   {z, -10, 10}, PlotRange → Full, Mesh → False, ImageSize → 300]], {r, -2, 2}]
```

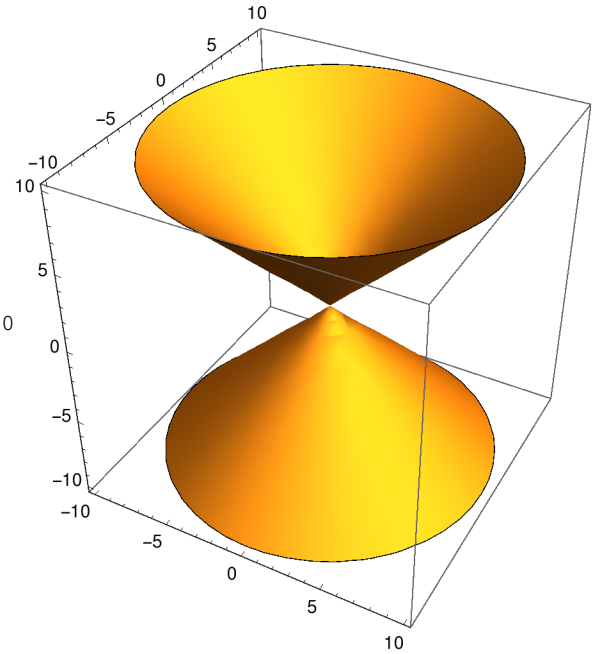
$x^2 + y^2 - z^2 == -2$



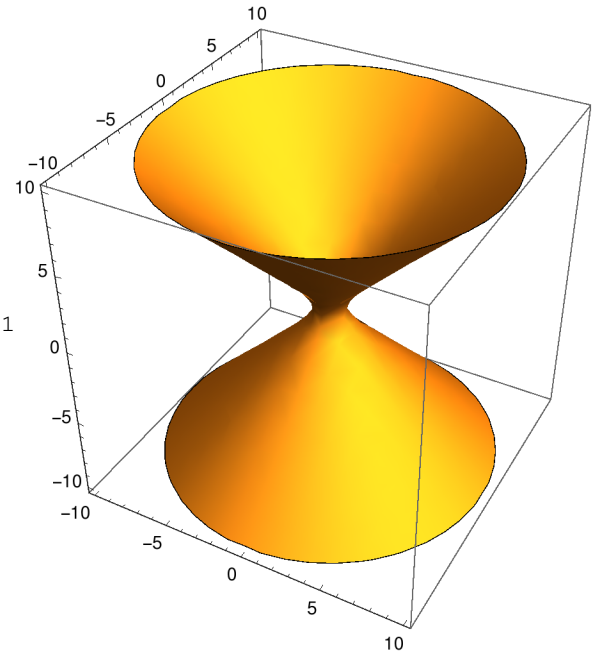
$x^2 + y^2 - z^2 == -1$



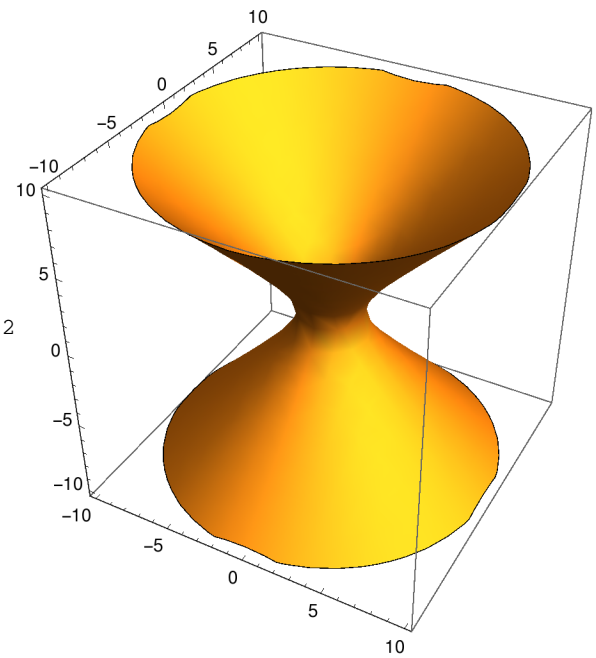
$x^2 + y^2 - z^2 == 0$



$x^2 + y^2 - z^2 == 1$

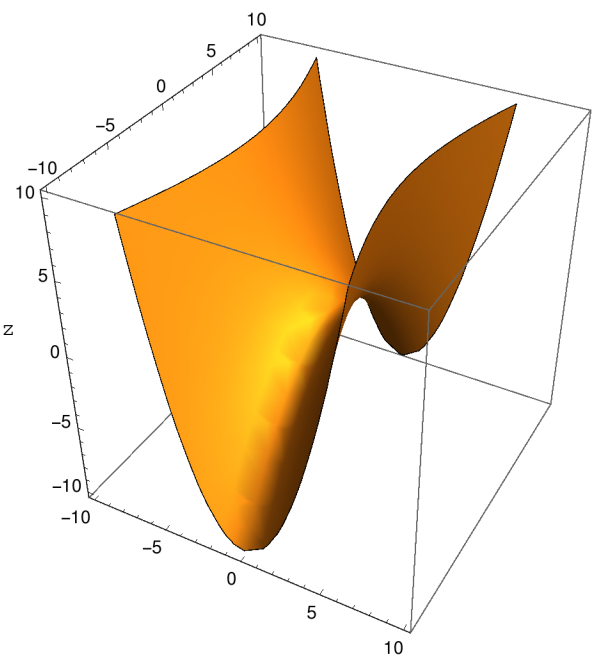


$x^2 + y^2 - z^2 == 2$

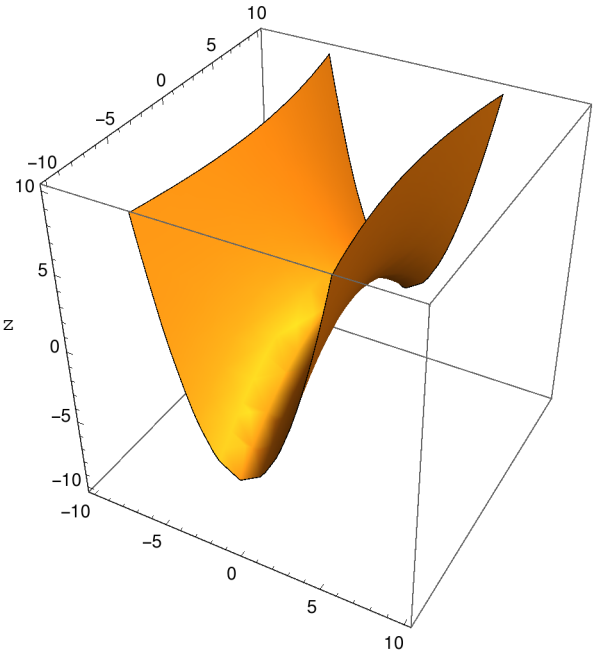


In[11]:=
```
A = 10; L = 10;
Do[Print[A x^2 + B y^2 == 2 L z,
  ContourPlot3D[A x^2 + B y^2 == 2 L z, {x, -10, 10}, {y, -10, 10},
   {z, -10, 10}, PlotRange → Full, Mesh → False, ImageSize → 300]], {B, -2, 2}]
```

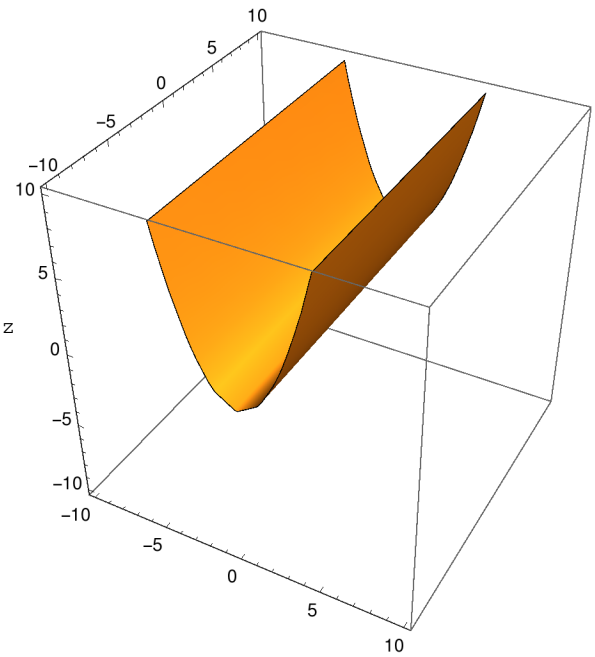
$10\,x^2 - 2\,y^2 == 20\,z$



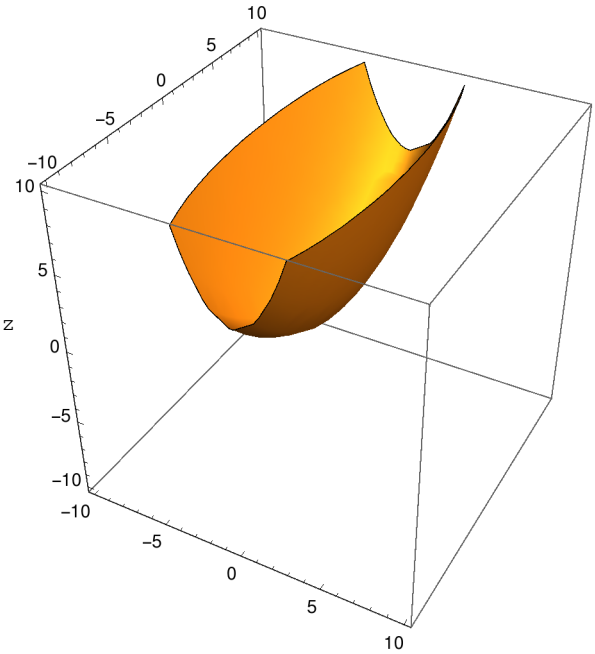
$10\,x^2 - y^2 == 20\,z$



$10\,x^2 == 20\,z$



$10\,x^2 + y^2 == 20\,z$



$10\,x^2 + 2\,y^2 == 20\,z$