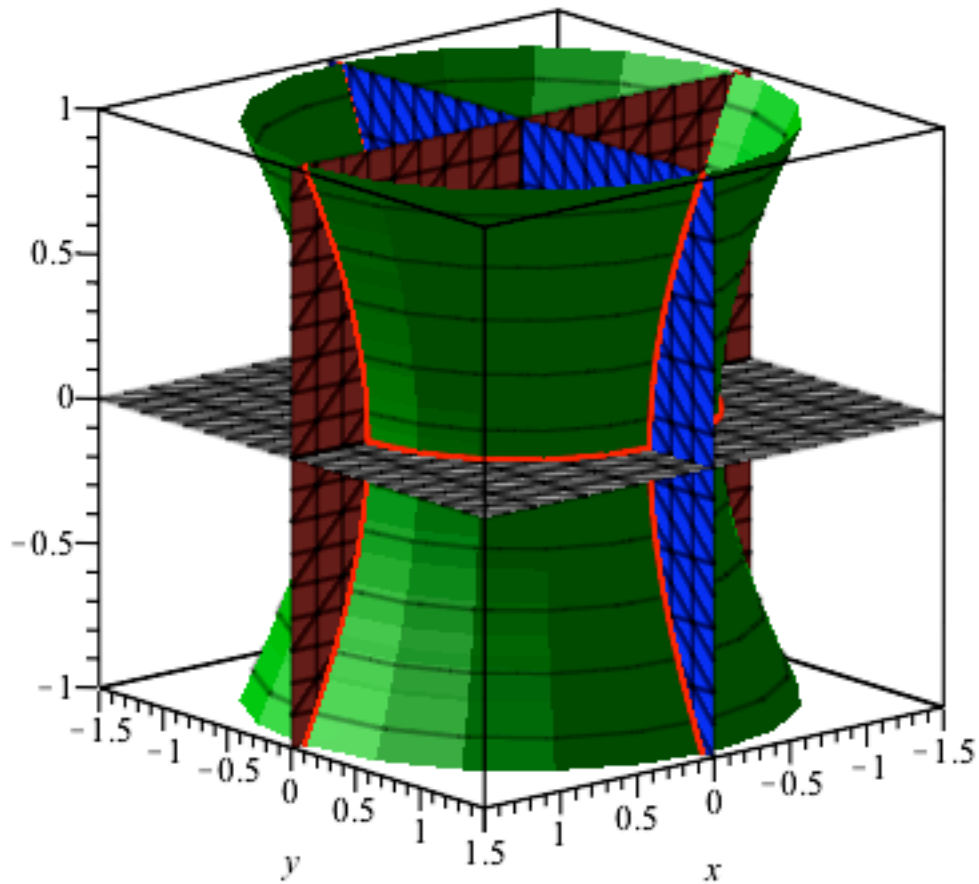


```

> with(plots) :
> P1 := implicitplot3d( $r^2 - z^2 = 1$ ,  $r = 0 \dots \sqrt{2}$ ,  $\theta = 0 \dots 2 \cdot \text{Pi}$ ,  $z = -1 \dots 1$ , coords = cylindrical,
  style = surfacecontour, color = "Green", numpoints = 5000) :
> P2 := implicitplot3d( $y = 0$ ,  $x = -1.5 \dots 1.5$ ,  $y = -1 \dots 1$ ,  $z = -1 \dots 1$ , color = "Brown") :
> P3 := implicitplot3d( $x = 0$ ,  $x = -1 \dots 1$ ,  $y = -1.5 \dots 1.5$ ,  $z = -1 \dots 1$ , color = "Blue") :
> P4 := spacecurve([cosh(t), 0, sinh(t)],  $t = -\text{Pi} \dots \text{Pi}$ , thickness = 2, color = "Red") :
> P5 := spacecurve([-cosh(t), 0, sinh(t)],  $t = -\text{Pi} \dots \text{Pi}$ , thickness = 2, color = "Red") :
> P6 := spacecurve([0, cosh(t), sinh(t)],  $t = -\text{Pi} \dots \text{Pi}$ , thickness = 2, color = "Red") :
> P7 := spacecurve([0, -cosh(t), sinh(t)],  $t = -\text{Pi} \dots \text{Pi}$ , thickness = 2, color = "Red") :
> P8 := implicitplot3d( $z = 0$ ,  $x = -1.5 \dots 1.5$ ,  $y = -1.5 \dots 1.5$ ,  $z = -1 \dots 1$ , color = "Grey") :
> P9 := spacecurve([cos(t), sin(t), 0],  $t = 0 \dots 2 \cdot \text{Pi}$ , thickness = 2, color = "Red") :
> display(P1, P2, P3, P4, P5, P6, P7, P8, P9, view = [-1.5 \dots 1.5, -1.5 \dots 1.5, -1 \dots 1], axes = boxed,
  orientation = [50, 75], labels = [x, y, z])

```



```

>

```