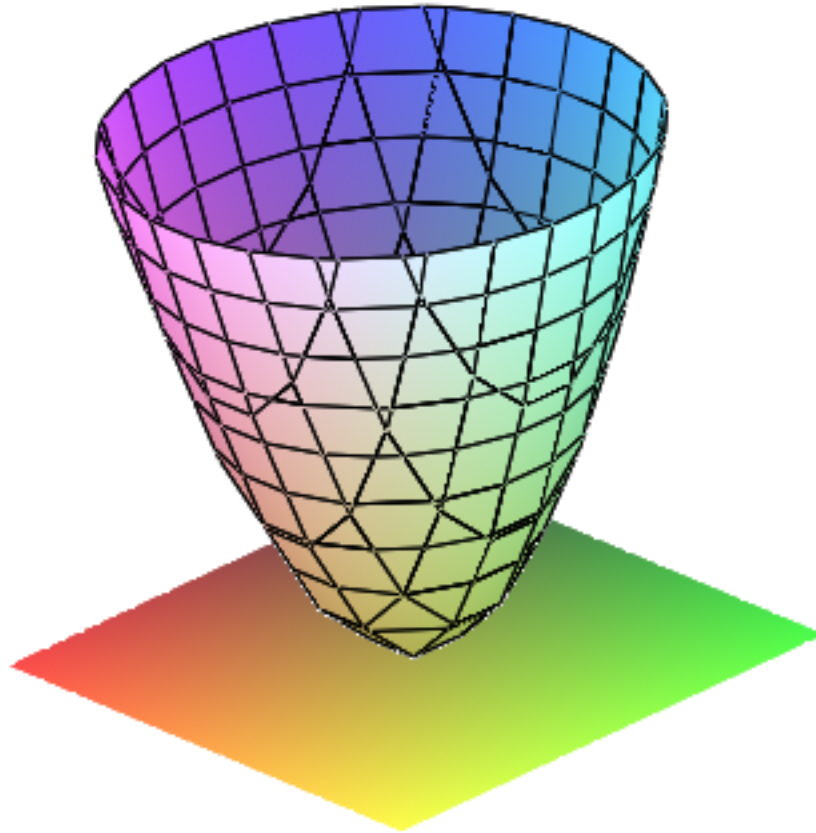


```

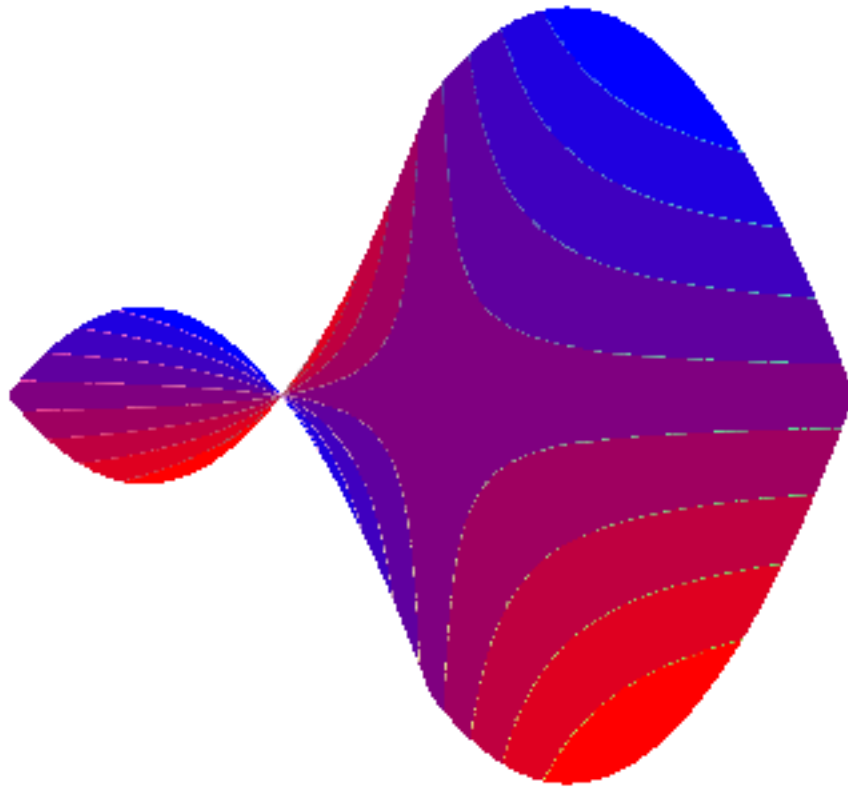
with(plots) :
a := implicitplot3d(z=x2+y2, x=-1..1, y=-1..1, z=0..1) :
b := animate(plot3d, [[x, y, A], x=-1..1, y=-1..1, style=wireframe], A=0..1) :
c := animate(spacecurve, [[t, sqrt(A-t2), A], t=-1..1, thickness=3, color=blue], A=0..1) :
Warning, unable to evaluate the function to numeric values in the
region; see the plotting command's help page to ensure the
calling sequence is correct
d := animate(spacecurve, [[t, -sqrt(A-t2), A], t=-1..1, thickness=3, color=blue], A=0..1) :
Warning, unable to evaluate the function to numeric values in the
region; see the plotting command's help page to ensure the
calling sequence is correct
e := animate(spacecurve, [[t, sqrt(A-t2), 0], t=-1..1, thickness=3, color=blue], A=0..1) :
e1 := animate(spacecurve, [[t, -sqrt(A-t2), 0], t=-1..1, thickness=3, color=blue], A=0..1) :
Warning, unable to evaluate the function to numeric values in the
region; see the plotting command's help page to ensure the
calling sequence is correct
Warning, unable to evaluate the function to numeric values in the
region; see the plotting command's help page to ensure the
calling sequence is correct
f := plot3d([x, y, 0], x=-1..1, y=-1..1, style=patchnogrid) :
display(a, b, c, d, e, e1, f)

```

$$A = 0.$$



*with(plots) :*  
*contourplot3d(x<sup>2</sup>-y<sup>2</sup>, x=-1 ..1, y=-1 ..1, filledregions = true, coloring = [red, blue])*



*with(plots) :*

*a2 := animate(implicitplot3d, [x<sup>2</sup> + y<sup>2</sup> - z<sup>2</sup> = A, x = -1 .. 1, y = -1 .. 1, z = -1 .. 1], A = 0 .. 1) :*

*b2 := implicitplot3d(x<sup>2</sup> + y<sup>2</sup> - z<sup>2</sup> = 0, x = -1 .. 1, y = -1 .. 1, z = -1 .. 1, style = patchnogrid) :*

*display(a2, b2)*

$$A=0.$$

