Test_Jupyter_1

September 17, 2018

In [1]:
```
z1(x) = 5^x
```

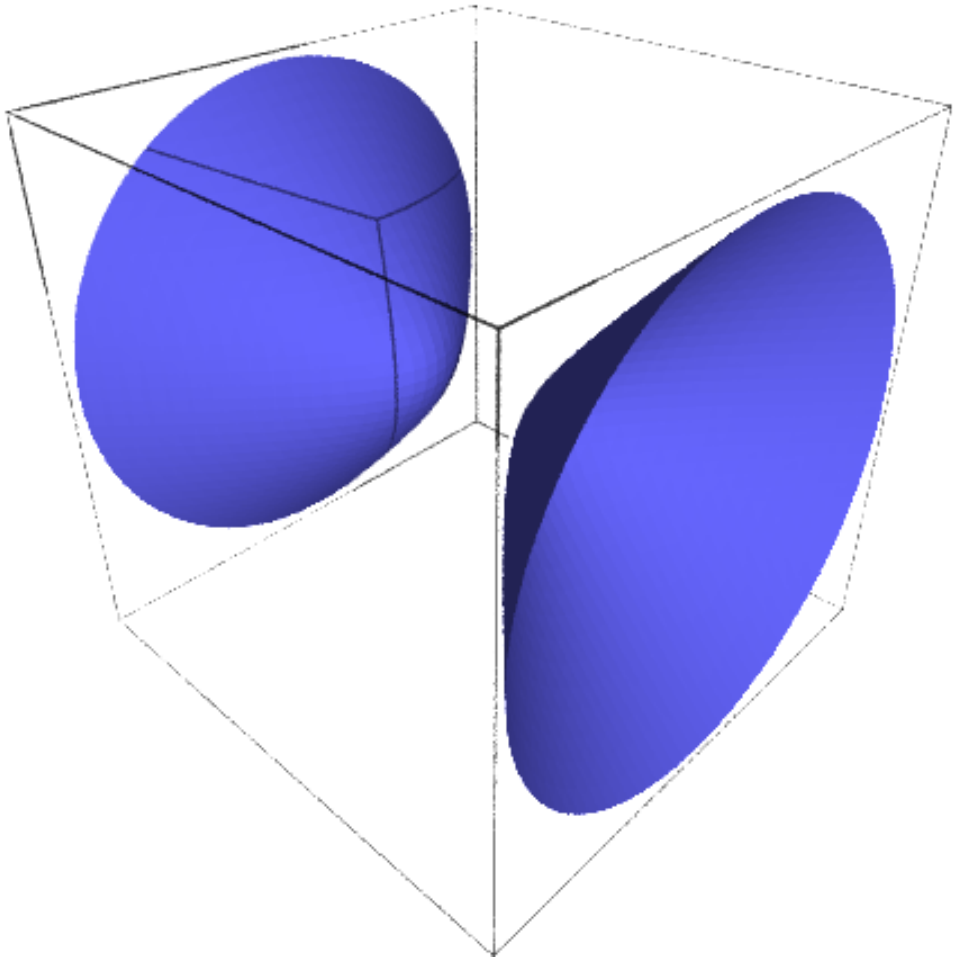
In [2]:
```
z2(x) = x^5
```

In [3]:
```
S = solve(z1(x) == z2(x), x, to_poly_solve=True)
```

In [4]:
```
F(x, y, z) = x^2 - y^2 - z^2
```

In [5]:
```
implicit_plot3d(F(x, y, z) == 1,
            (x, -4, 4), (y, -4, 4), (z, -4, 4), viewer='tachyon')
```

Out[5]:



In [6]: latex(S)

Out[6]: \left[x = -\frac{5 \, \operatorname{W}({-\frac{1}{20} \, \sqrt{5} \log\left

$$[x = -\frac{5\ \mathrm{W}(-\frac{1}{20}\sqrt{5}\log(5) - \frac{1}{20}i\sqrt{2\sqrt{5}+10}\log(5) + \frac{1}{20}\log(5))}{\log(5)},$$
$$x = -\frac{5\ \mathrm{W}(\frac{1}{20}\sqrt{5}\log(5) - \frac{1}{20}i\sqrt{-2\sqrt{5}+10}\log(5) + \frac{1}{20}\log(5))}{\log(5)},$$
$$x = -\frac{5\ \mathrm{W}(\frac{1}{20}\sqrt{5}\log(5) + \frac{1}{20}i\sqrt{-2\sqrt{5}+10}\log(5) + \frac{1}{20}\log(5))}{\log(5)},$$
$$x = -\frac{5\ \mathrm{W}(-\frac{1}{20}\sqrt{5}\log(5) + \frac{1}{20}i\sqrt{2\sqrt{5}+10}\log(5) + \frac{1}{20}\log(5))}{\log(5)},$$
$$x = -\frac{5\ \mathrm{W}(-\frac{1}{5}\log(5))}{\log(5)}]$$

In [ ]: