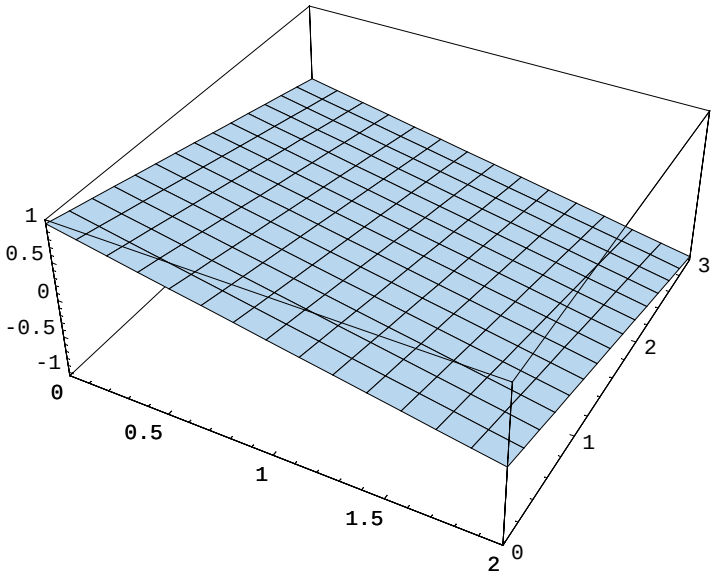
■ $\frac{x}{2} + \frac{y}{3} + z = 1$

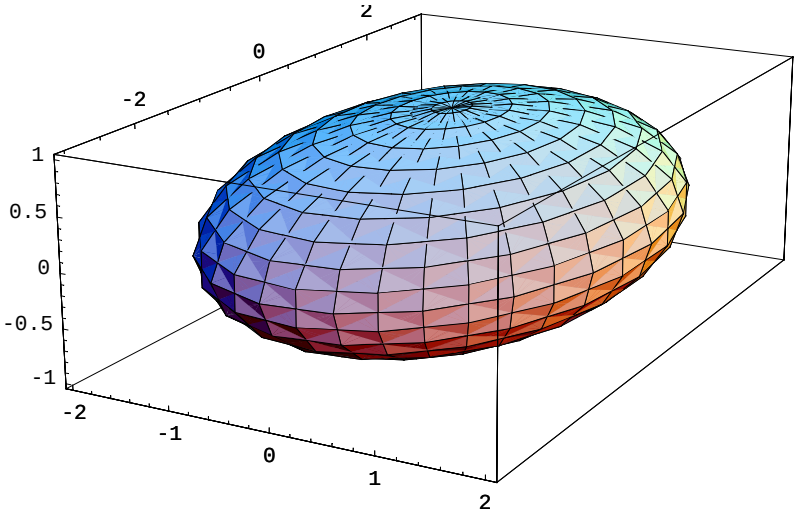
```
Plot3D[1 - (x/2 + y/3), {x, 0, 2}, {y, 0, 3}]
```



- SurfaceGraphics -

■ $\frac{x^2}{2^2} + \frac{y^2}{3^2} + z^2 = 1$

```
d = ParametricPlot3D[{2 Cos[s] Cos[t], 3 Sin[s] Cos[t], Sin[t]},
  {s, 0, 2 π}, {t, 0, 2 π}, ViewPoint -> {1.540, -2.844, 0.995}]
```

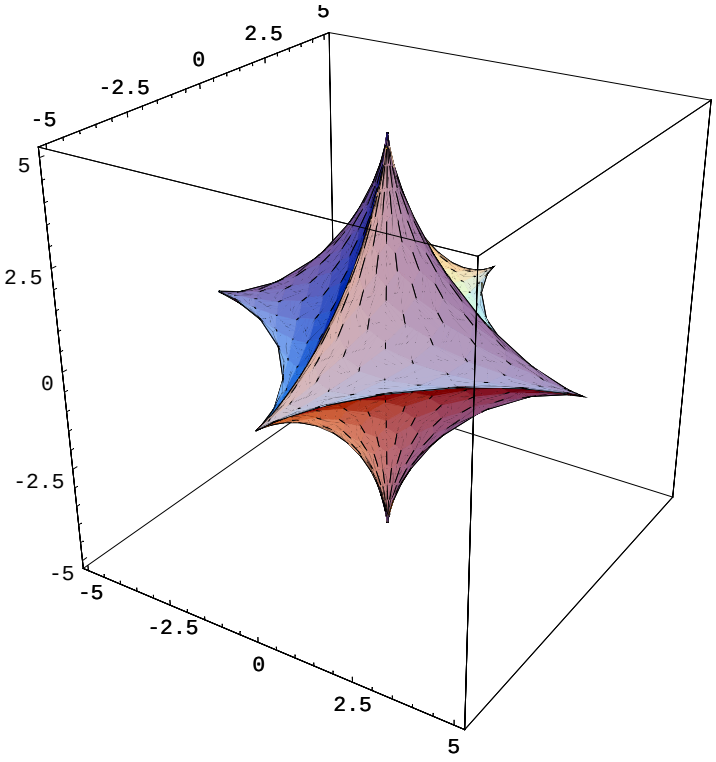


- Graphics3D -

```
dd = ParametricPlot3D[{2 Cos[s] Cos[t], 3 Sin[s] Cos[t], Sin[t]},
  {t, -π / 2, π / 2}, {s, 0, π}, ViewPoint -> {1.540, -2.844, 0.995}]
```

■ $x^{2/3} + y^{2/3} + z^{2/3} = 5^{2/3}$

```
ParametricPlot3D[{5 Cos[s]^3 Cos[t]^3, 5 Sin[s]^3 Cos[t]^3, 5 Sin[t]^3}, {s, 0, 2 π},
 {t, 0, 2 π}, PlotRange → All, PlotPoints → 30, ViewPoint -> {1.642, -2.543, 1.512}]
```



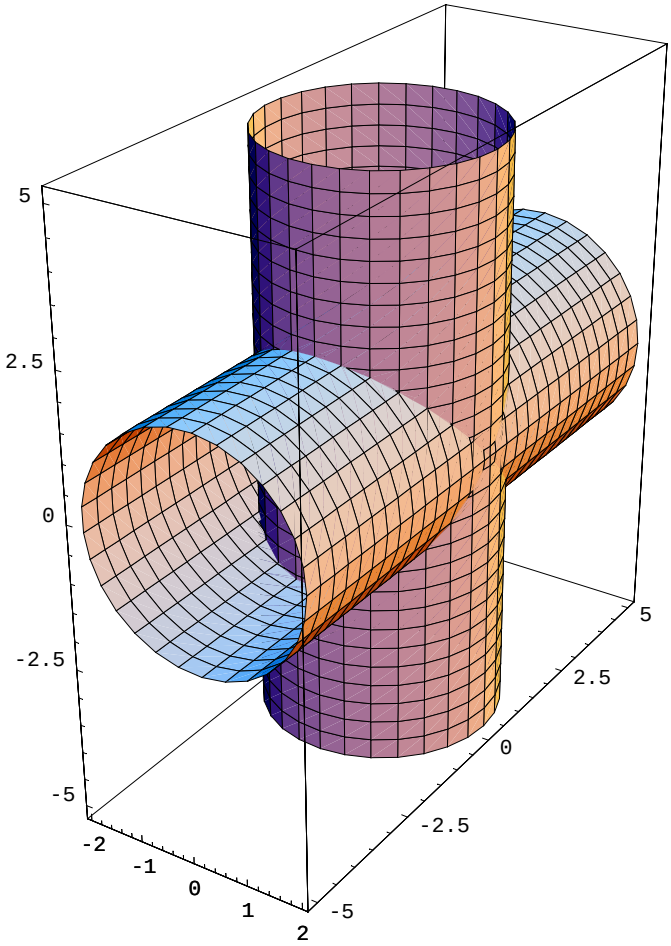
- Graphics3D -

■ $x^2 + y^2 = 2^2$ & $x^2 + z^2 = 2^2$

```
a = ParametricPlot3D[{ 2 Cos[t], 2 Sin[t], s}, {t, 0, 2 π}, {s, -5, 5},
  PlotRange → All, PlotPoints → 30, ViewPoint -> {1.642, -2.543, 1.512}]
```

```
b = ParametricPlot3D[{ 2 Cos[t], s, 2 Sin[t]}, {t, 0, 2 π}, {s, -5, 5},
  PlotRange → All, PlotPoints → 30, ViewPoint -> {1.642, -2.543, 1.512}]
```

```
Show[{a, b}]
```



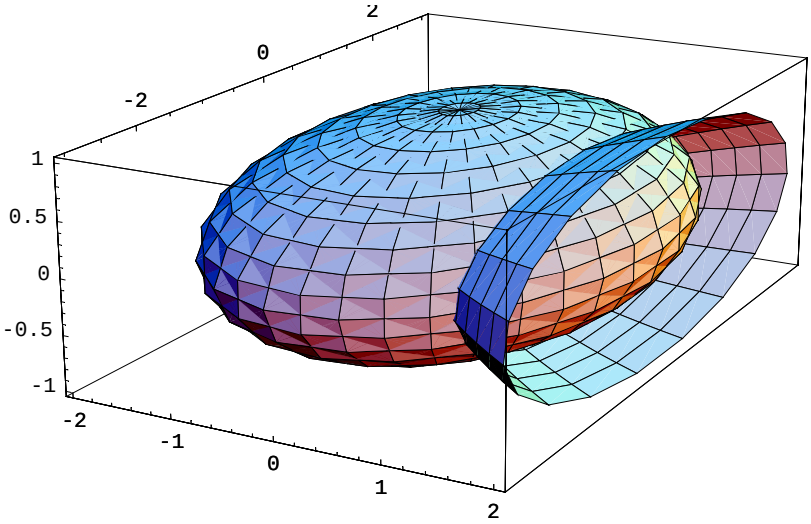

```
- Graphics3D -
```

■ $\frac{x^2}{2^2} + \frac{y^2}{3^2} + z^2 = 1 \;\&\; \frac{y^2}{3^2} + z^2 = \frac{x}{2}$

```
e = ParametricPlot3D[{2 r^2, 3 r Sin[s], r Cos[s]},
  {r, 0, 1}, {s, 0, 2 π}, ViewPoint -> {1.540, -2.844, 0.995}]
```

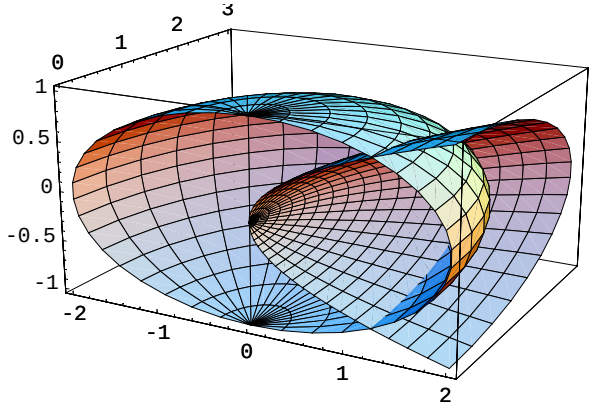
```
ee = ParametricPlot3D[{2 r^2, 3 r Sin[s], r Cos[s]},
  {r, 0, 1}, {s, 0, π}, ViewPoint -> {1.540, -2.844, 0.995}]
```

```
Show[{d, e}]
```




```
- Graphics3D -
```

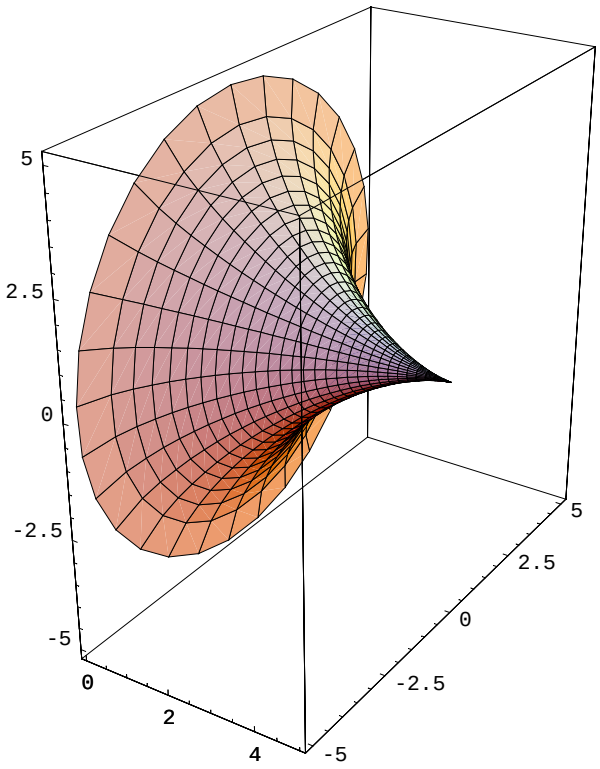
```
Show[{dd, ee}]
```




```
- Graphics3D -
```

■ $x^{2/3} + y^{2/3} = 5^{2/3}$ の回転

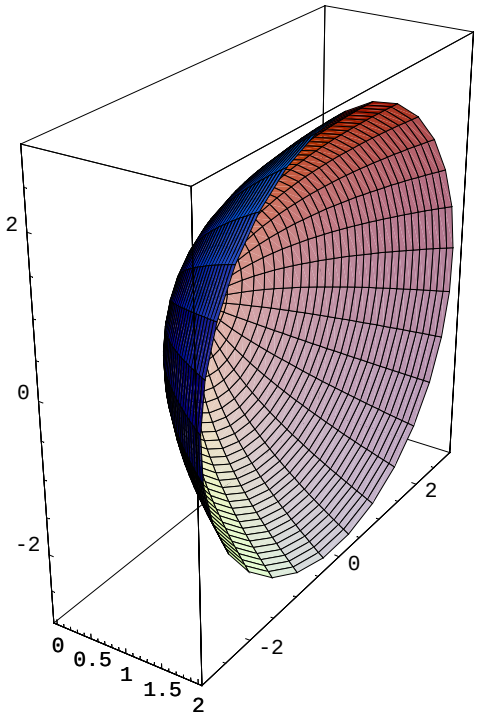
```
ParametricPlot3D[{r, (5^(2/3) - r^(2/3))^(3/2) Sin[s], (5^(2/3) - r^(2/3))^(3/2) Cos[s]}, {r, 0, 5},
 {s, 0, 2 π}, PlotRange → All, PlotPoints → 30, ViewPoint -> {1.642, -2.543, 1.512}]
```



- Graphics3D -

■ $y^2 = 4x$ の回転

```
ParametricPlot3D[{r, 2 r^(1/2) Sin[s], 2 r^(1/2) Cos[s]}, {r, 0, 2}, {s, 0, 2 π},
 PlotRange → All, PlotPoints → 30, ViewPoint -> {1.642, -2.543, 1.512}]
```



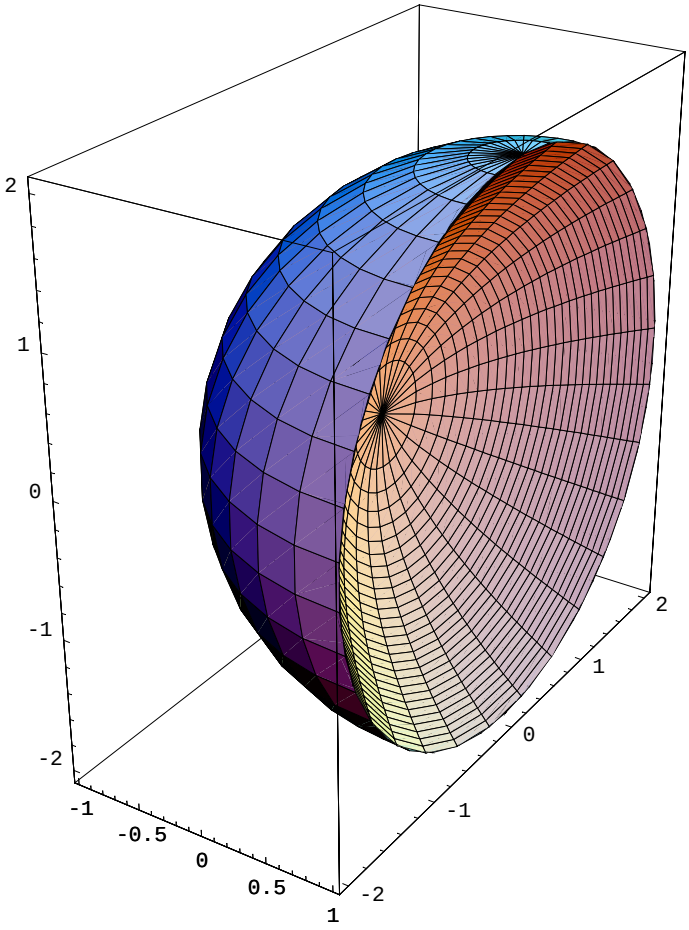

```
- Graphics3D -
```

■ $y^2 + z^2 = 4x$ & $(x-1)^2 + y^2 + z^2 = 2^2$ の回転

```
g = ParametricPlot3D[{r, 2 r^(1/2) Sin[s], 2 r^(1/2) Cos[s]}, {r, 0, 1}, {s, 0, 2 π},
  PlotRange → All, PlotPoints → 30, ViewPoint -> {1.642, -2.543, 1.512}]
```

```
d = ParametricPlot3D[{1 + 2 Cos[s] Cos[t], 2 Sin[s] Cos[t], 2 Sin[t]},
  {s, π / 2, 3 π / 2}, {t, -π / 2, π / 2}, ViewPoint -> {1.540, -2.844, 0.995}]
```

```
Show[{g, d}]
```




```
- Graphics3D -
```