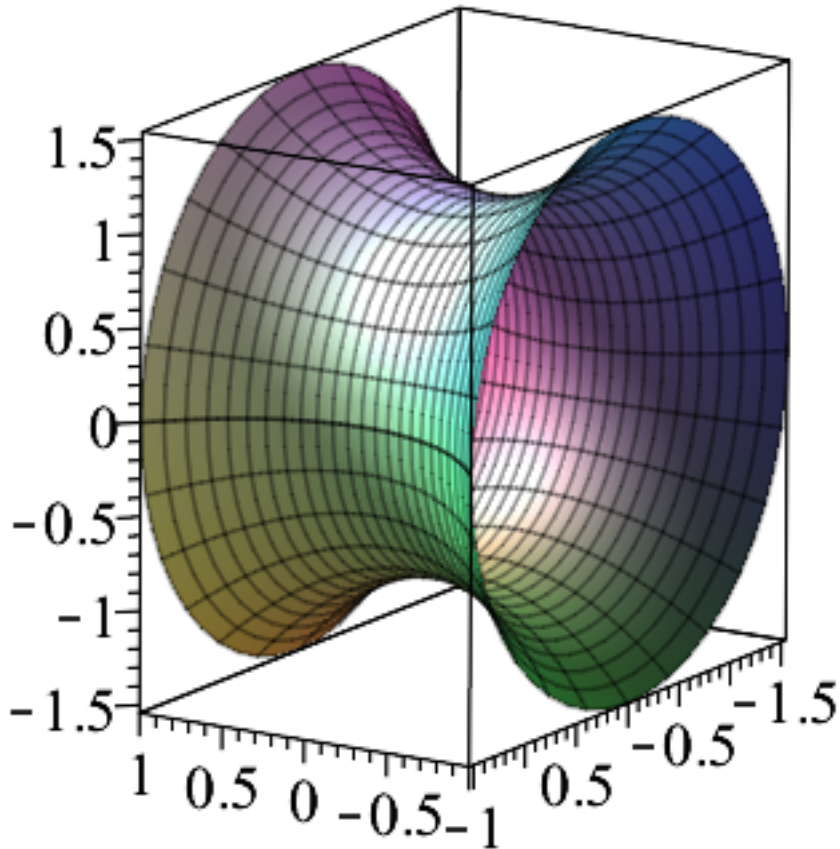


実習20.4

> with(plots) :

```
> plot3d([s, (exp(s) + exp(-s))/2 * cos(t), (exp(s) + exp(-s))/2 * sin(t)], s=-1..1, t=0..2 * Pi)
```



```
> 2 * Pi * int(sqrt(1 + (diff((exp(s) + exp(-s))/2, s)))^2) * abs((exp(s) + exp(-s))/2), s=-1 ..1)
```

$$2\pi \left(1 + \frac{e^2}{4} - \frac{e^{-2}}{4}\right)$$

(1)