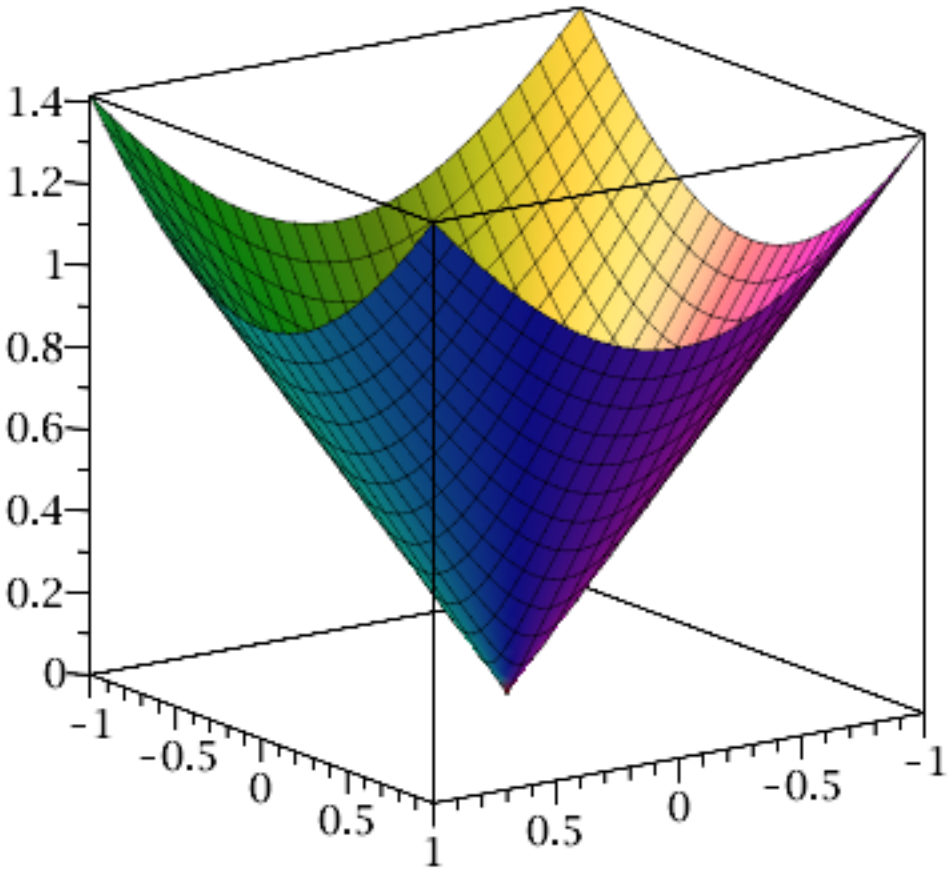
```
with(plots):
f1 := z→z
```

$$f1 := z \mapsto z \tag{1}$$

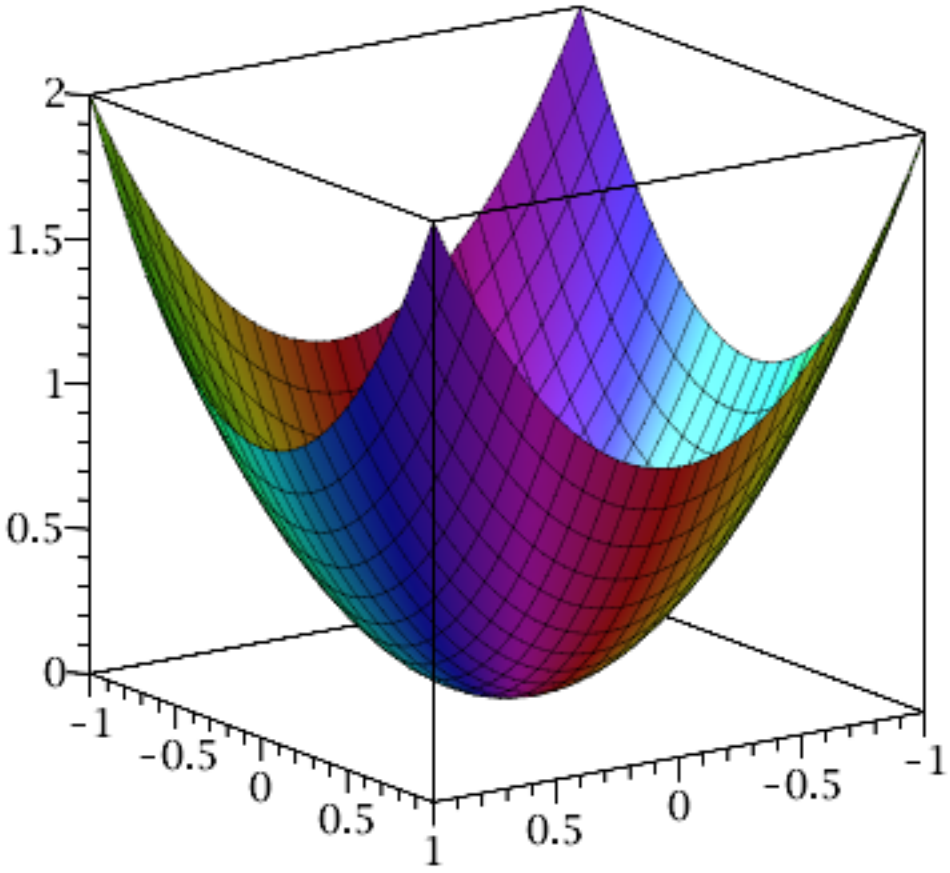
```
complexplot3d(f1,-1 - I..1 + I)
```




```
f2 := z→z^2
```

$$f2 := z \mapsto z^2 \tag{2}$$

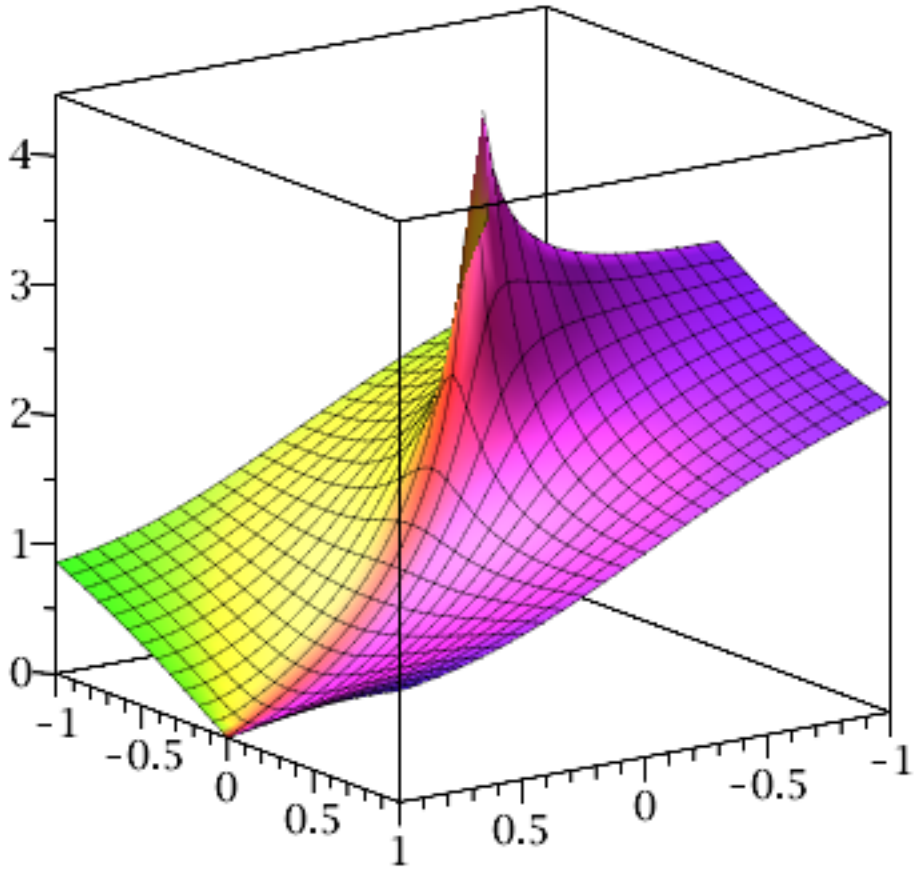
```
complexplot3d(f2,-1 - I..1 + I)
```



$f3 := z \rightarrow \log(z)$

$$f3 := z \mapsto \log(z) \tag{3}$$

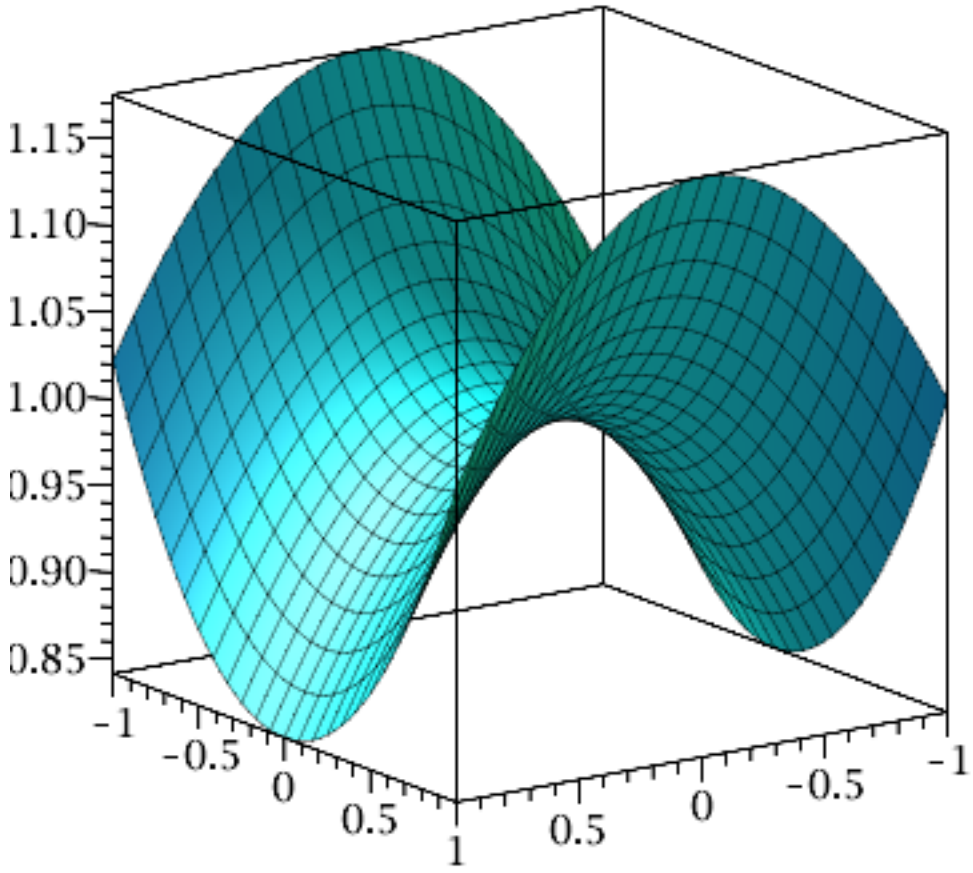
$complexplot3d(f3, -1 - I..1 + I)$



$f4 := z \rightarrow \frac{\sin(z)}{z}$

$$f4 := z \mapsto \frac{\sin(z)}{z} \quad \textbf{(4)}$$

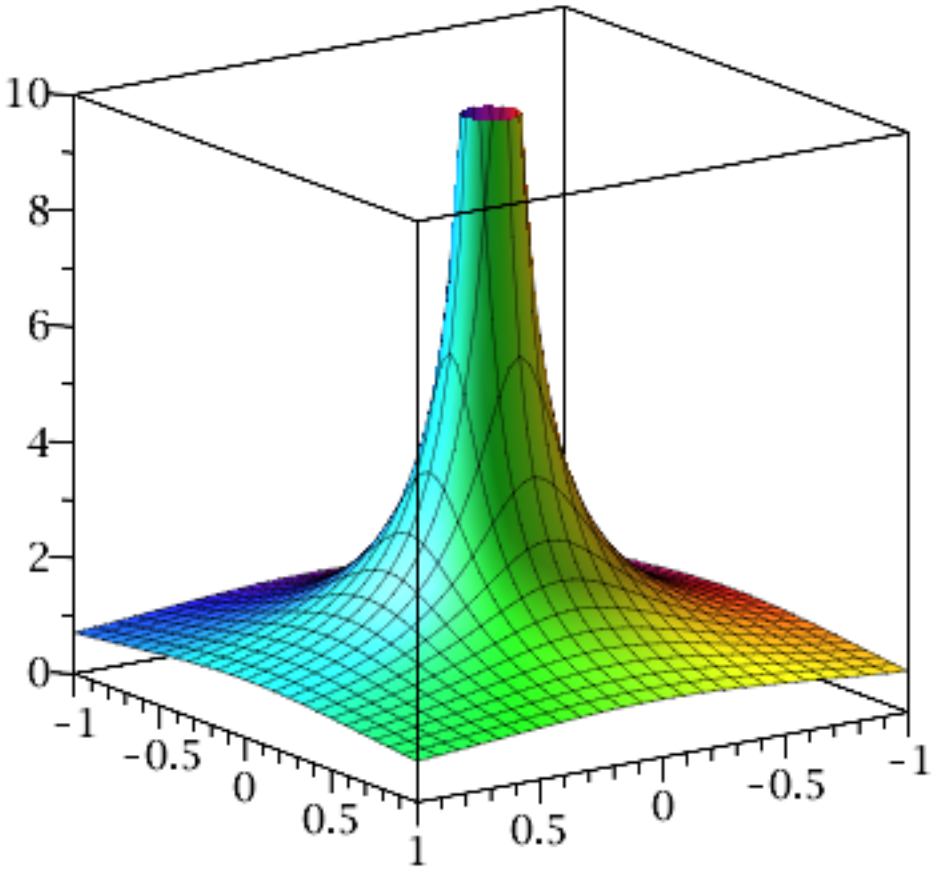
$complexplot3d(f4, -1 - I..1 + I)$



$f5 := z \to \frac{1}{z}$

$$f5 := z \mapsto \frac{1}{z} \tag{5}$$

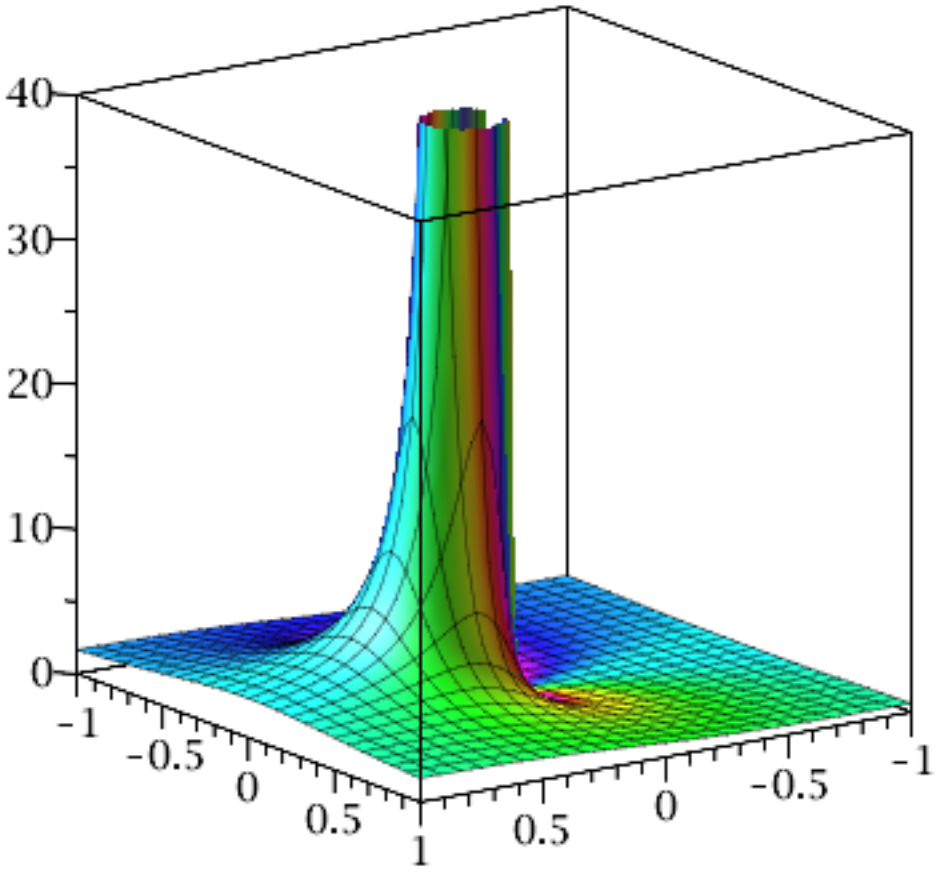
$complexplot3d(f5, -1 - I..1 + I, view = 0..10)$



$f6 := z \to \exp\left(\frac{1}{z}\right)$

$$f6 := z \mapsto e^{\frac{1}{z}} \quad \textbf{(6)}$$

$complexplot3d(f6, -1 - I..1 + I, view = 0..40)$


40
30
20
10
0
-1
-0.5
0
0.5
1
0.5
0
-0.5
-1