

# Übung 9

```
In [1]: import sympy as sp  
from sympy import symbols
```

## Beispiel 90

$$\int x^2 * e^x$$

```
In [2]: x = symbols("x", real=True)  
f = x**2*sp.E**x  
sp.integrate(f)
```

$$\text{Out[2]: } (x^2 - 2x + 2) e^x$$

$$\int \frac{1}{\cos(x)}$$

```
In [3]: g = 1/sp.cos(x)  
sp.integrate(g)
```

$$\text{Out[3]: } -\frac{\log(\sin(x) - 1)}{2} + \frac{\log(\sin(x) + 1)}{2}$$