

**Problem 1 Stammfunktionen**

a)

$$\int x^2 \exp(x^3) dx = \frac{1}{3} \exp(x^3) + C$$

b)

$$\int \frac{\ln(x^2)}{x^2} dx = -\frac{2\ln(x) + 2}{x} + C$$

c)

$$\int \frac{1}{2}(\sin(2x) + 1) dx = \frac{1}{4}(-\cos(2x) + 2x) + C$$