

# Übungen zur Integration mit Substitution



$$1. \int_0^2 4x^3 \cdot e^{x^4+2} dx$$

$$2. \int_{-1}^2 x^2 \cdot e^{x^3-8} dx$$

$$3. \int_{-1}^3 \frac{4}{4x+6} dx$$

$$4. \int_1^4 \frac{4x}{(6x^2-4)^4} dx$$

$$5. \int_0^3 \frac{4x}{\sqrt{2x^2+8}} dx$$

$$6. \int_{-1}^0 \frac{3x^2}{\sqrt{2x^3+8}} dx$$

$$7. \int_{-2}^1 \frac{e^x}{6e^x+2} dx$$

$$8. \int_1^2 x^3 \cdot \ln(3x^4 + 4) dx$$