

## 4 Logarithmen

### Englische Aufgaben

- 4.1** Express  $n$  in terms of  $x$ .
- $3^x \cdot 27^{4x} = 3^n$
  - $4^{2x} \cdot 32^{7x} = 2^n$
- 4.2** Write each expression in the form  $\ln x$ , where  $x$  is a number. Use the laws of logarithms.
- $\frac{1}{2} \cdot \ln(7) - \ln(4)$
  - $\ln(3) + 2 \cdot \ln(5)$
- 4.3** Solve the equation  $6^{2x-3} = 7776$  for  $x$ .
- 4.4** Solve the given logarithmic equations for  $x$ .
- $\ln(x+2) - 1 = \ln(3x)$
  - $6 \lg(x^2) = 12$