Vereinfache

$\log_a \frac{1}{7} = \log_a 1 - \log_a 7 = -\log_a 7$

$\log_a(1^3) = \log_a(1) = 0$

$3^{\log_3 6} = 6$

$\log_5(5^{3u}) = 3u$

$\log_3 \sqrt[5]{7} = \frac{1}{5}\log_3 7$

Berechne

lg (1) = 0

lg (10.000) = 4

ln $(\frac{1}{e})$ = -1

$\log_2(8)$ = 3

$3^{\log_3 5} = 5$