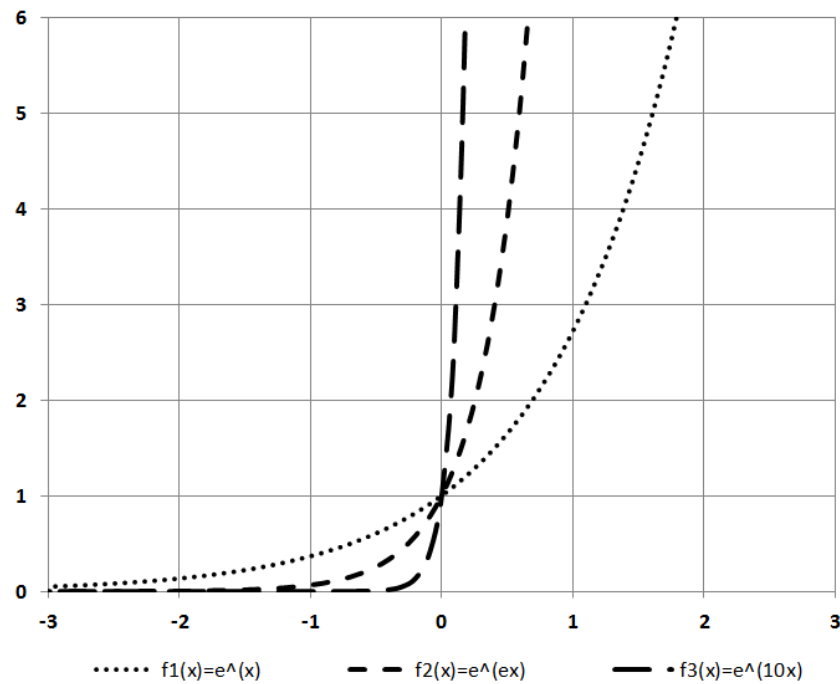
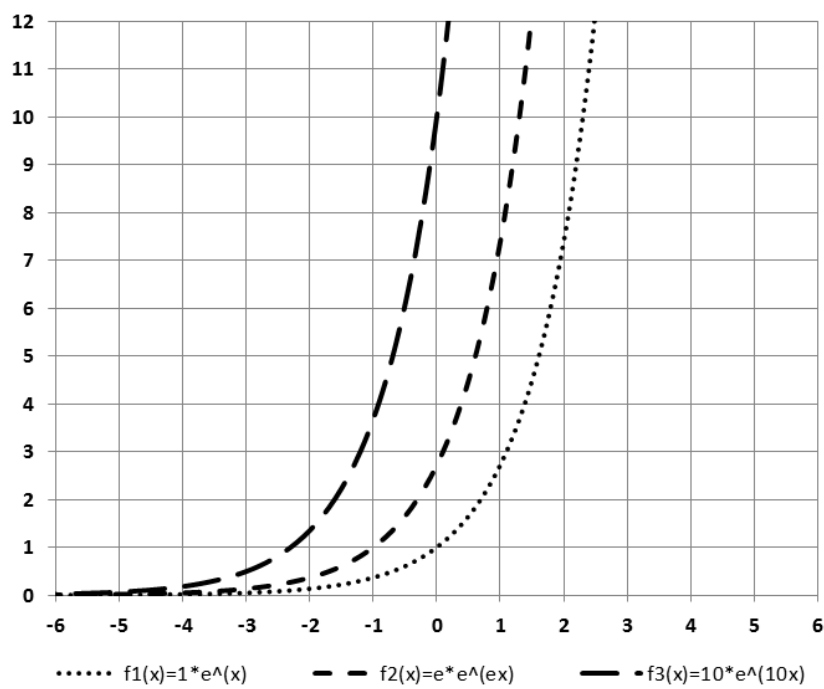


Exponentialfunktion und Logarithmus

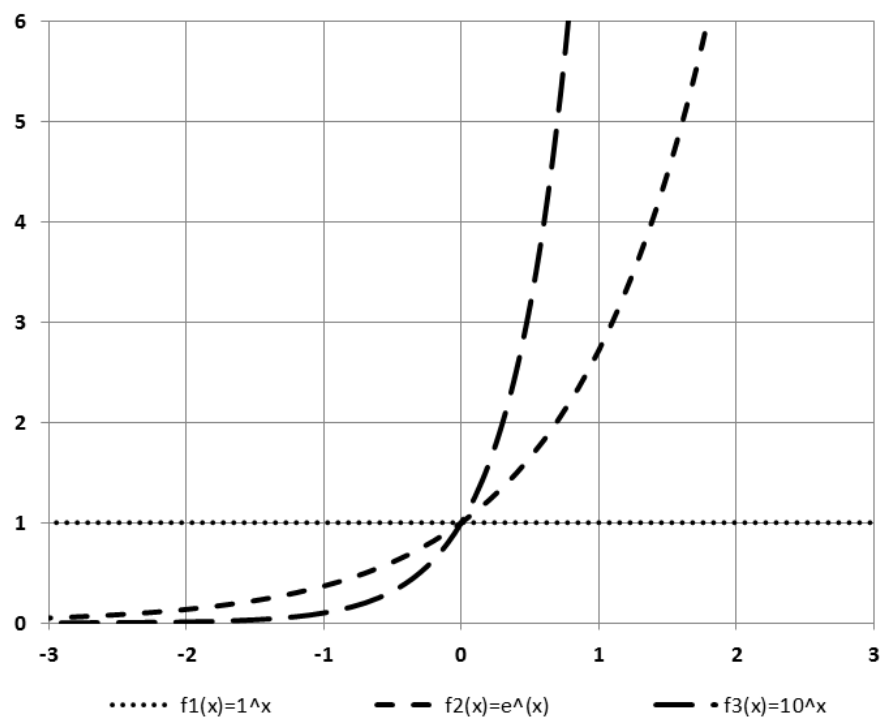
1. a)



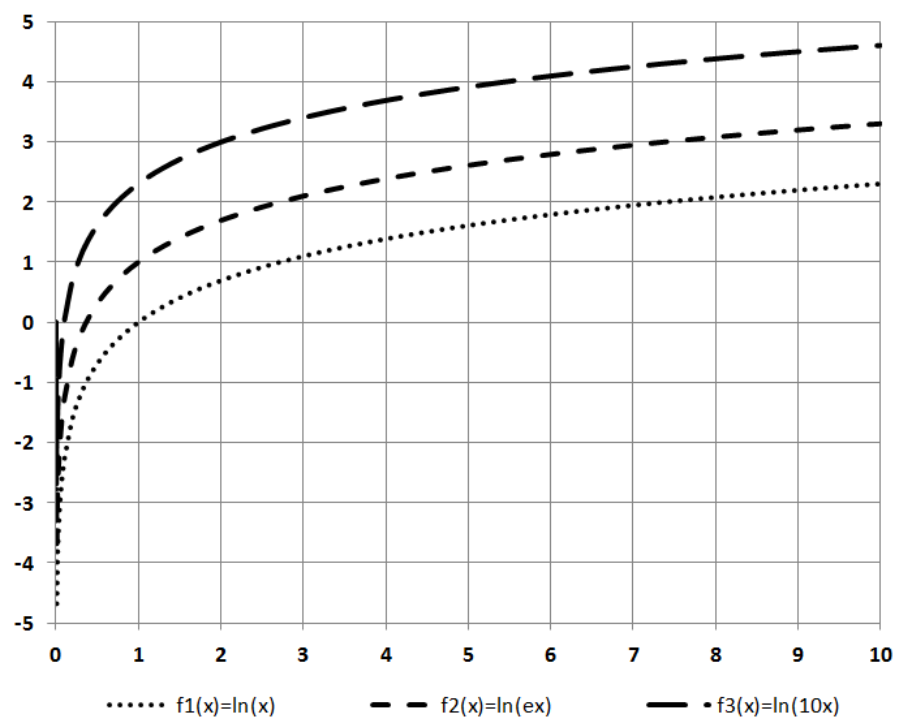
b)



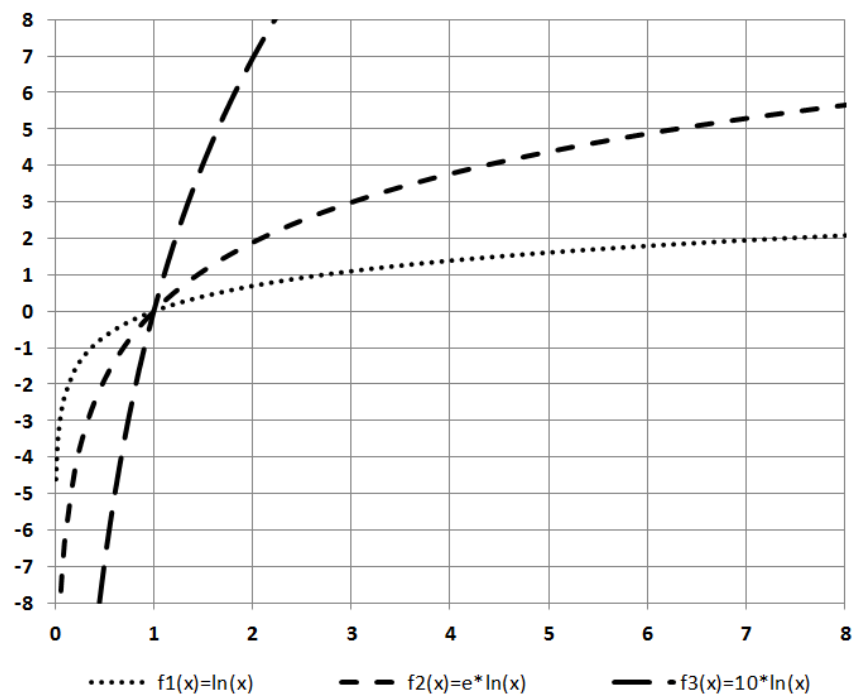
c)



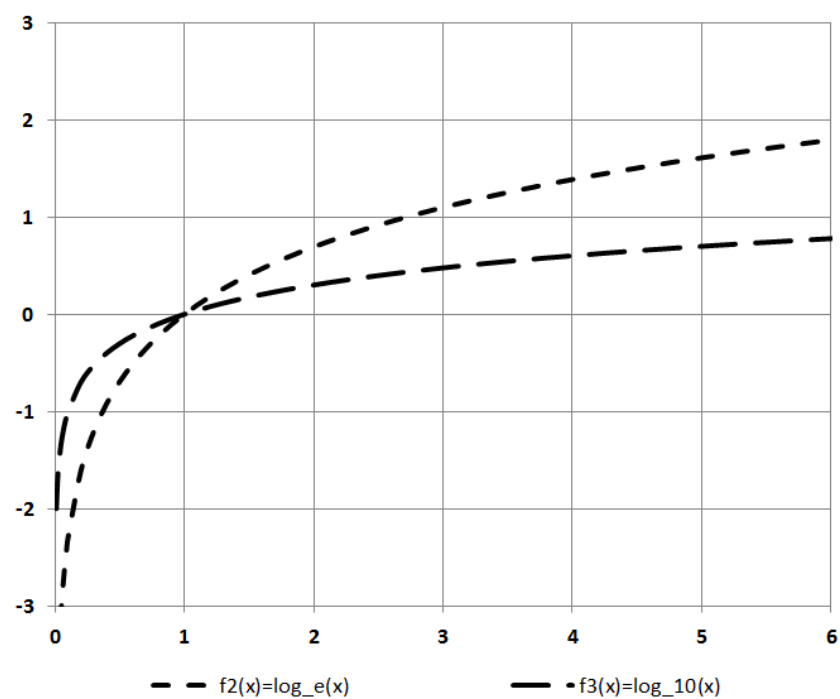
d)



e)



f)



2. a) $x = 0$
 b) $x = -2$
 c) $x_1 = -1 + \sqrt{1 + \ln(2)}; x_2 = -1 - \sqrt{1 + \ln(2)}$
 d) $x = 3$
 e) $x = 100$
 f) $6 \ln(x) - 2 \ln(x) = 4 \ln(x) = 2.4 \implies \ln(x) = 0.6 \implies x = e^{0.6}$
 g) $x = \frac{1}{e^e}$
 h) $x_1 = 2; x_2 = 5$