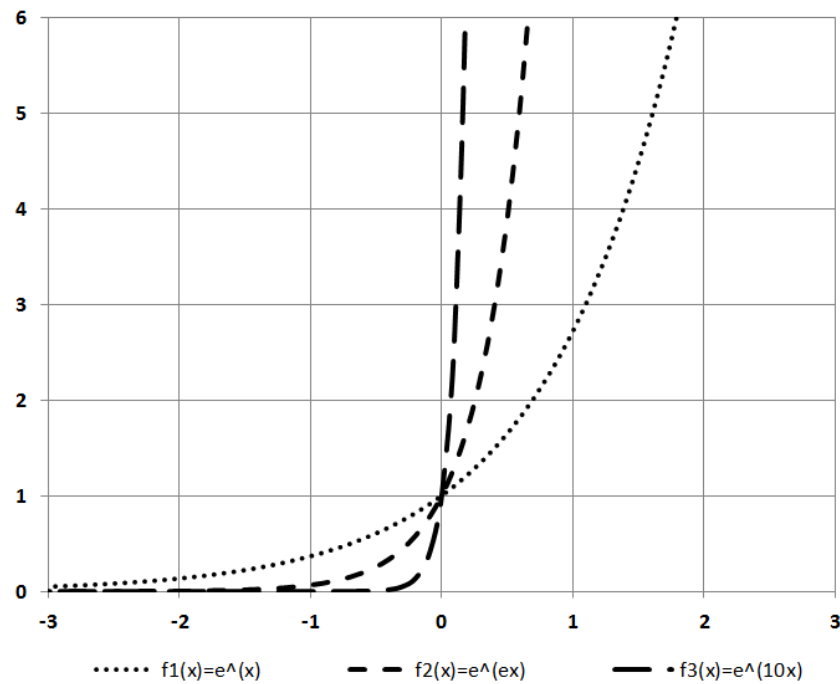
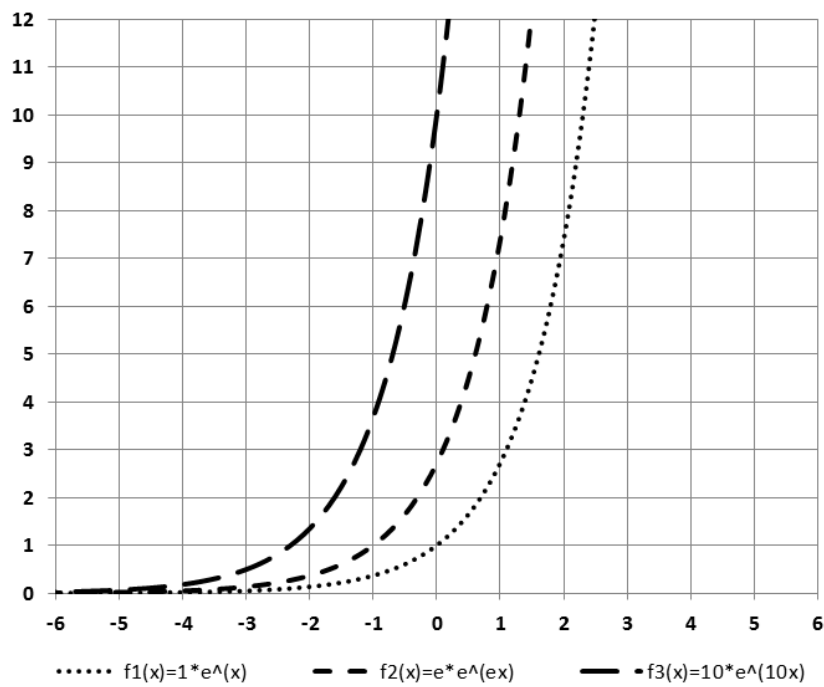


## Exponential function and logarithm

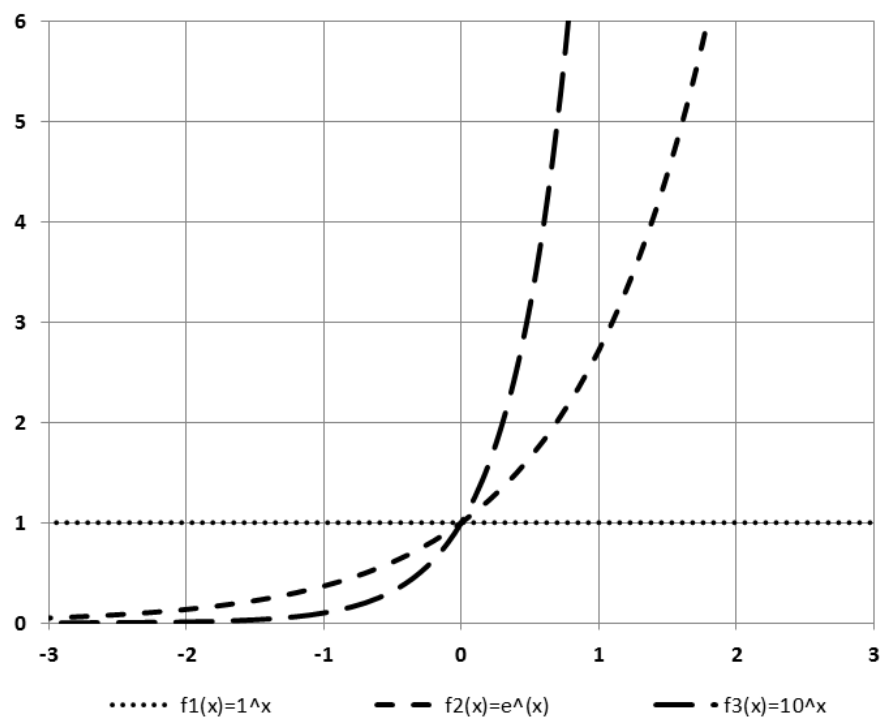
1. a)



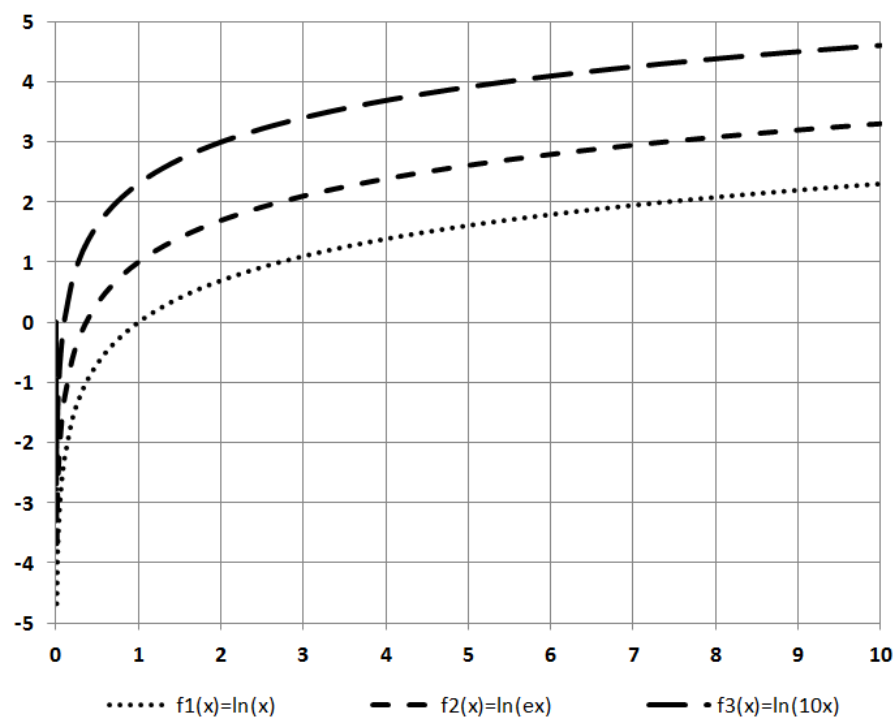
b)



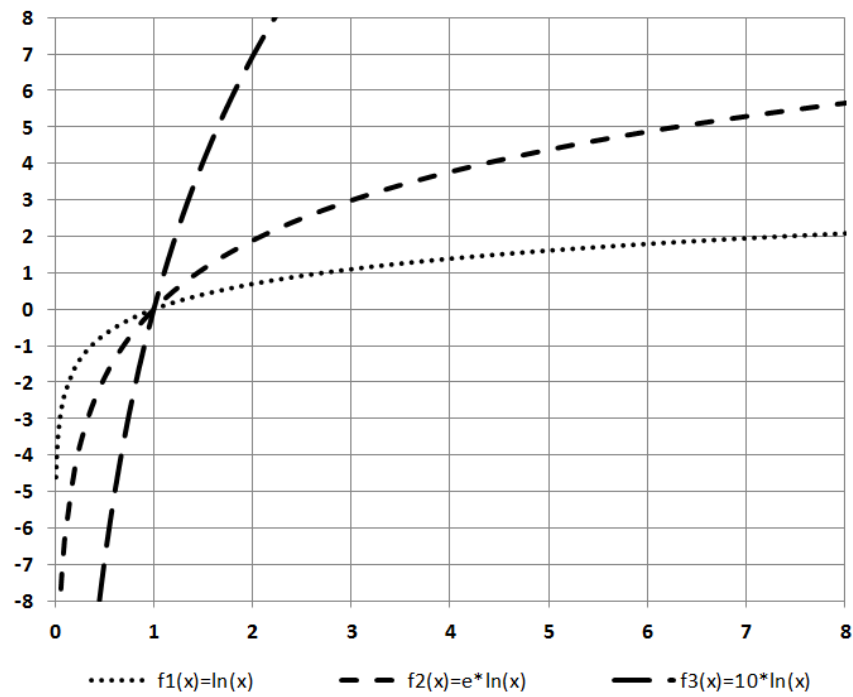
c)



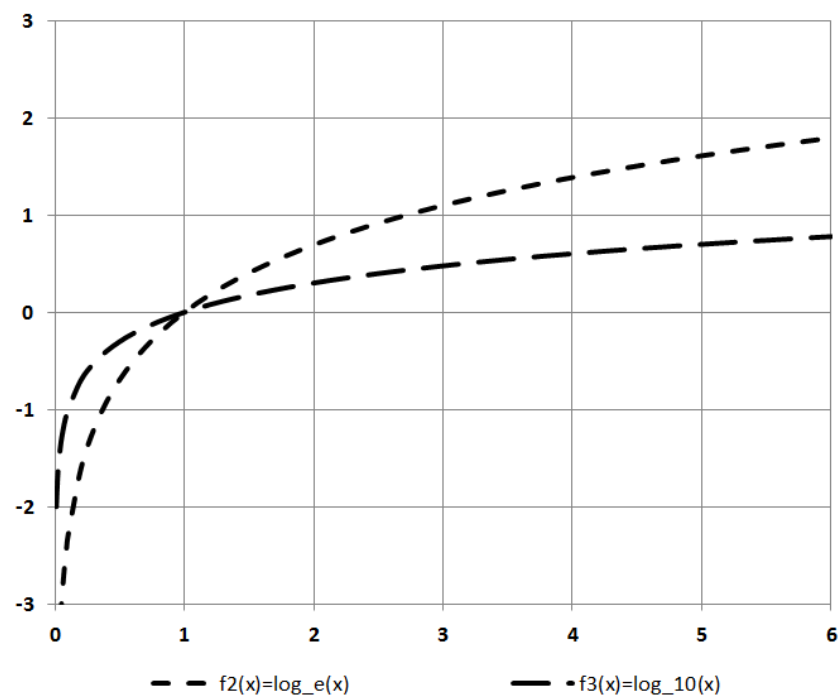
d)



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)  $x_1 = 2; x_2 = 5$