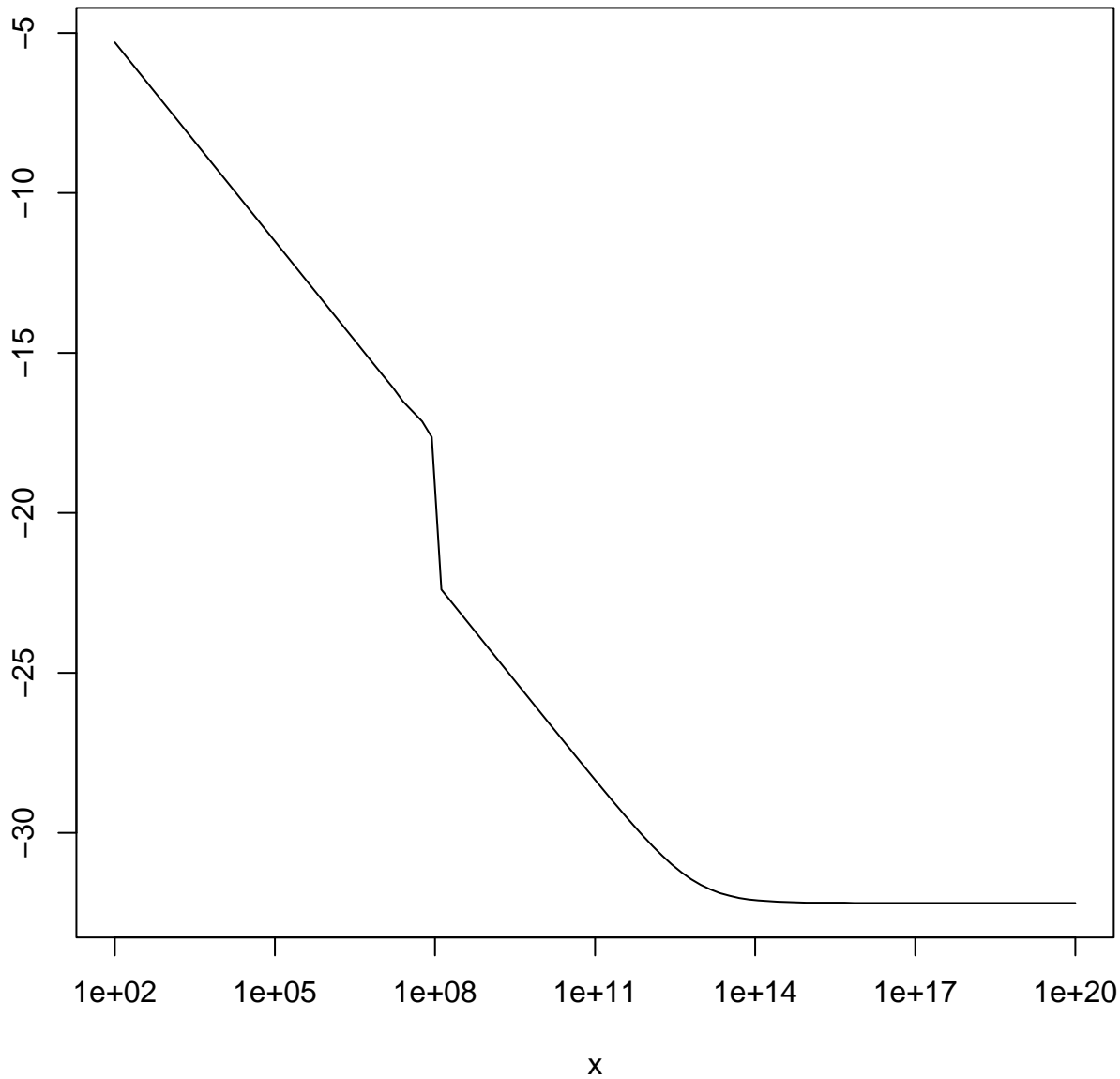
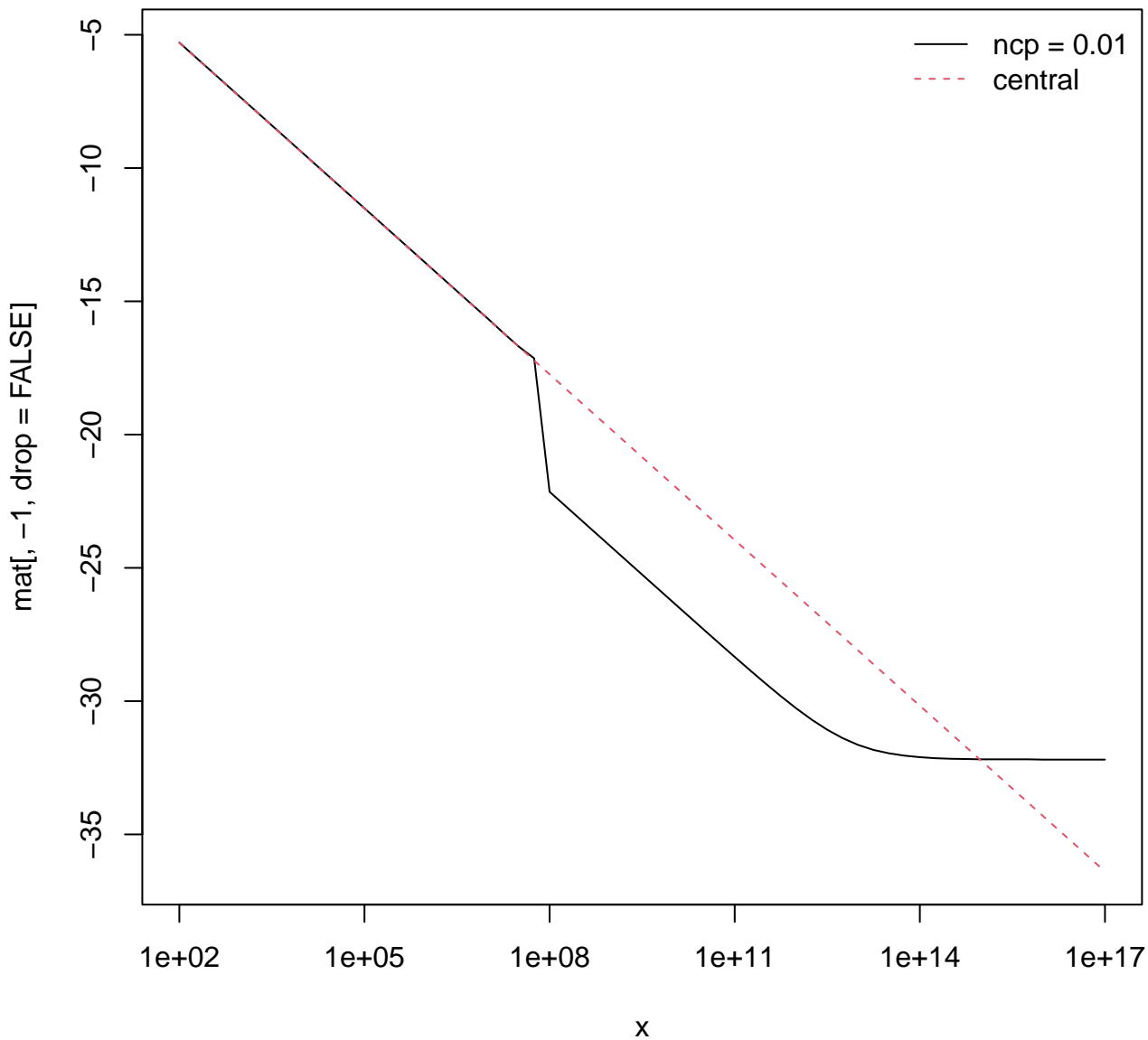


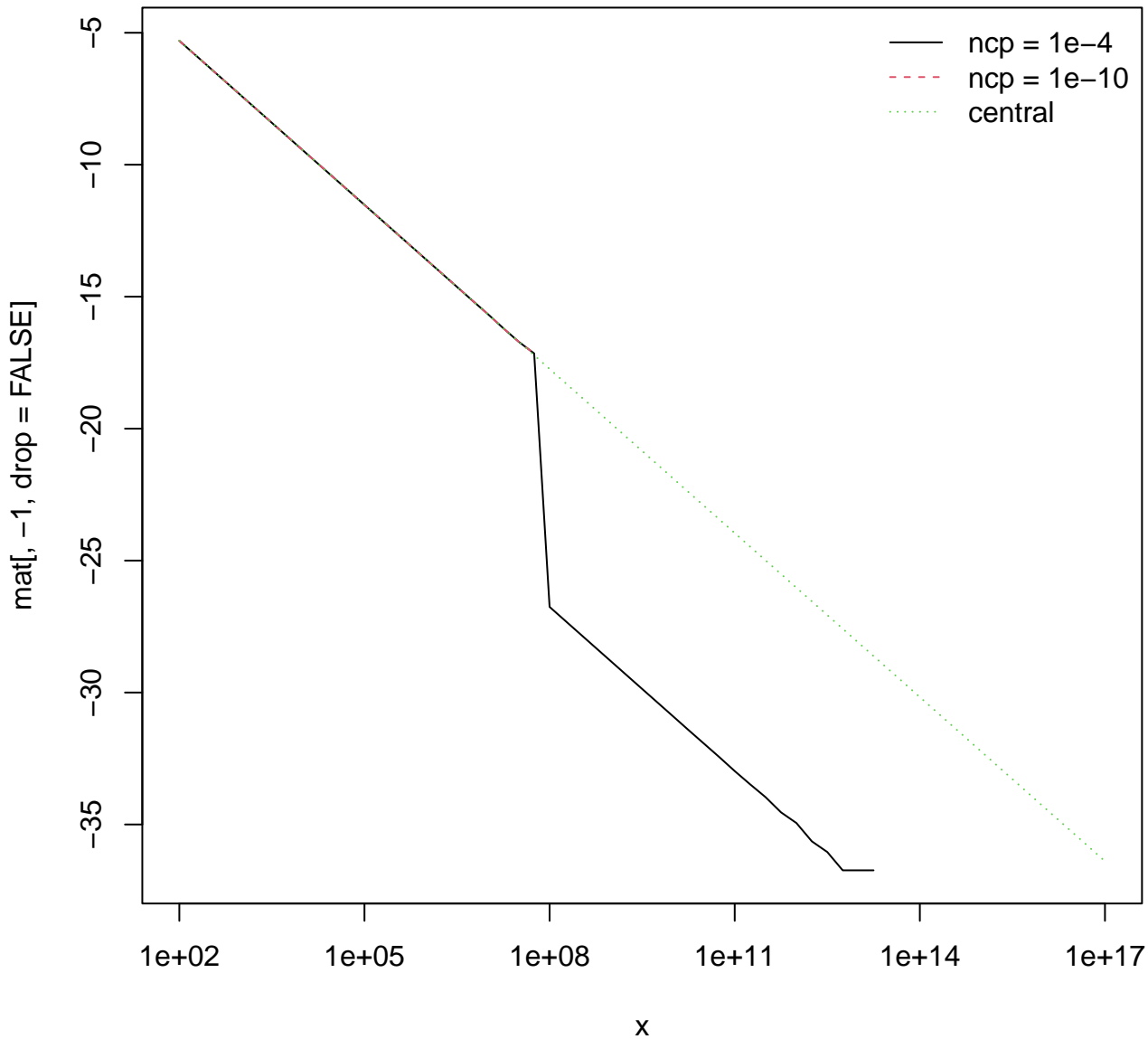
pt(x, df = 0.9, ncp = 0.01, lower.tail = FALSE, log = TRUE)



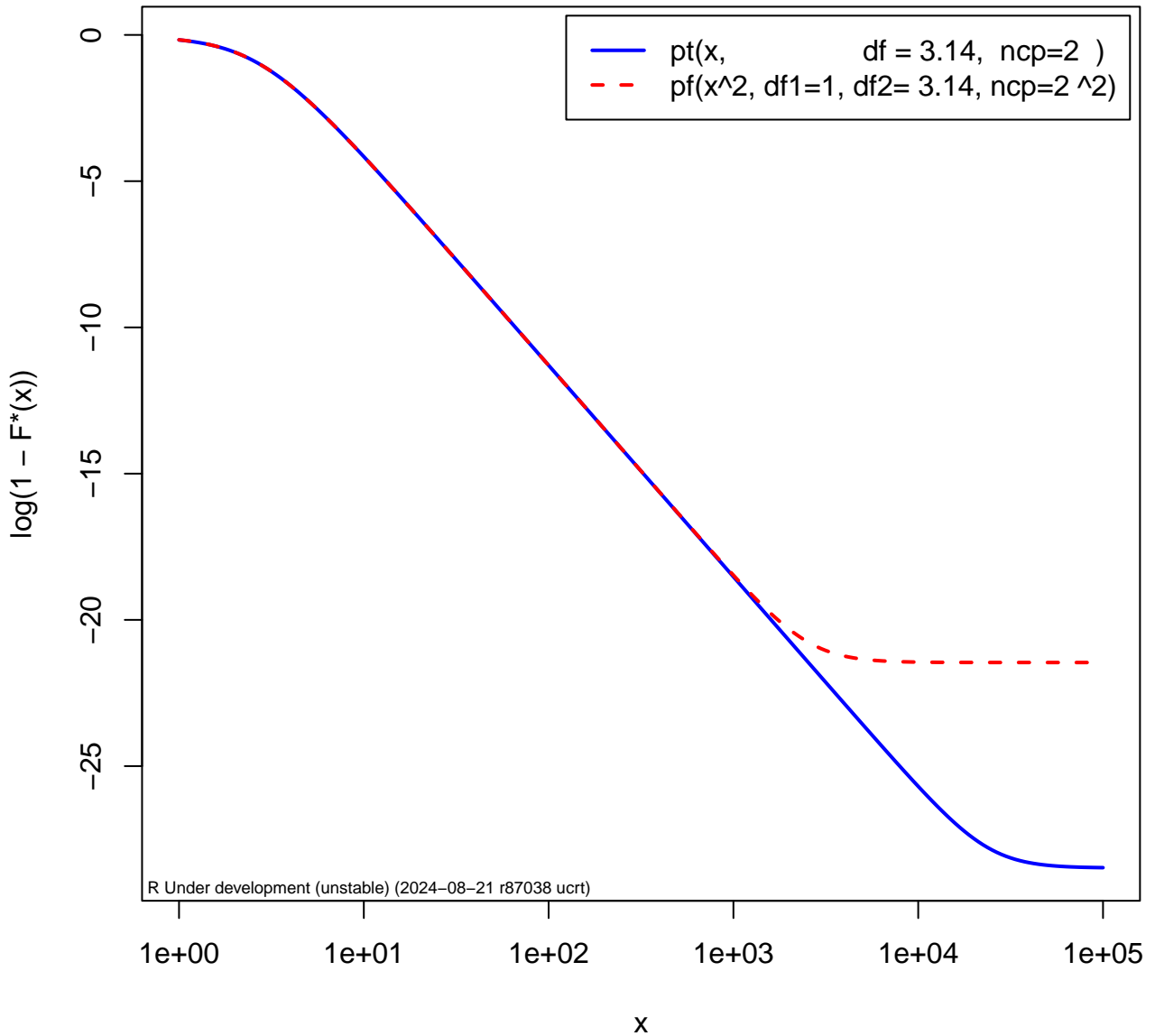
pt(x, df = 0.9, lower = F, log=TRUE)



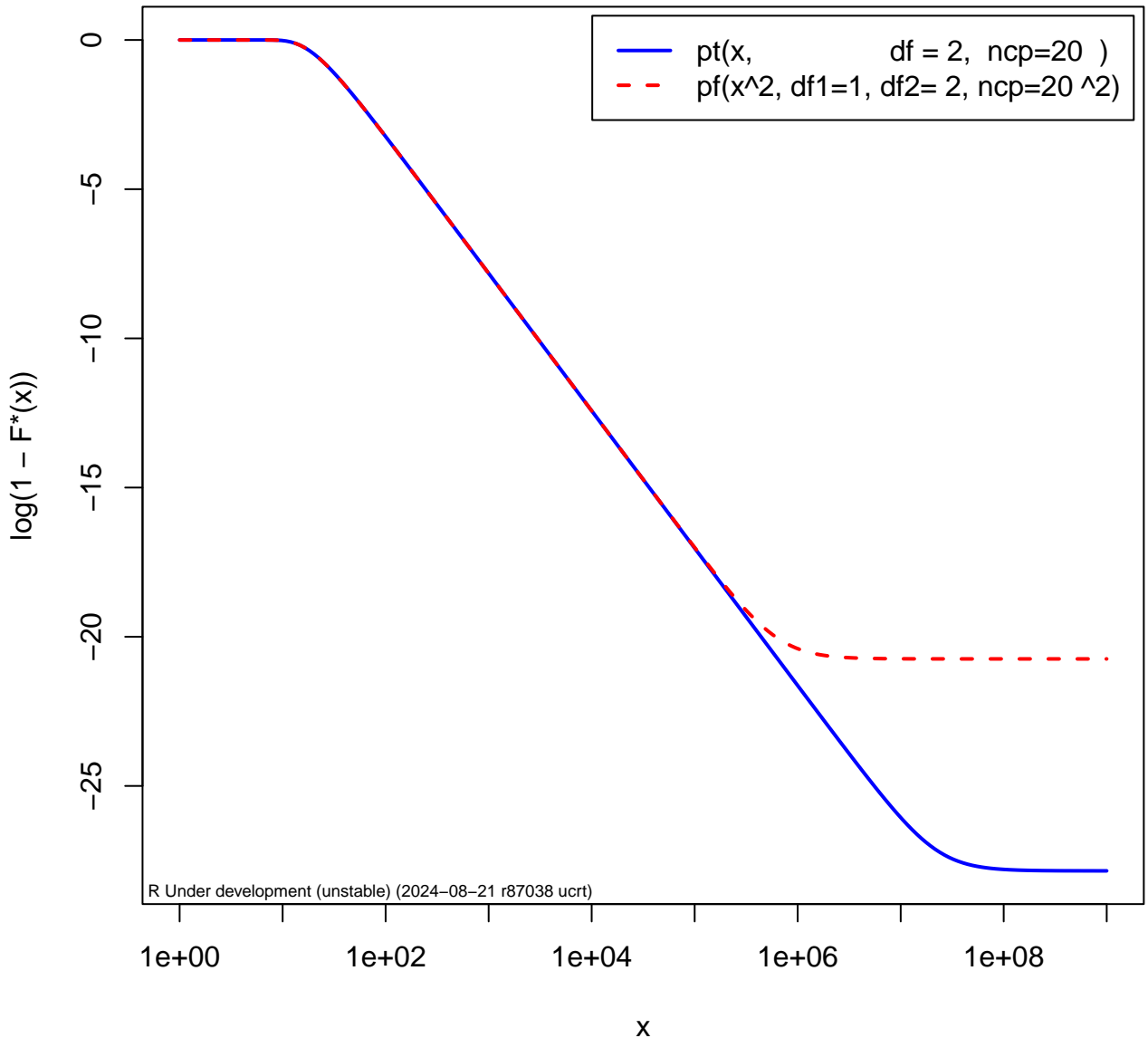
pt(x, df = 0.9, lower = F, log=TRUE)



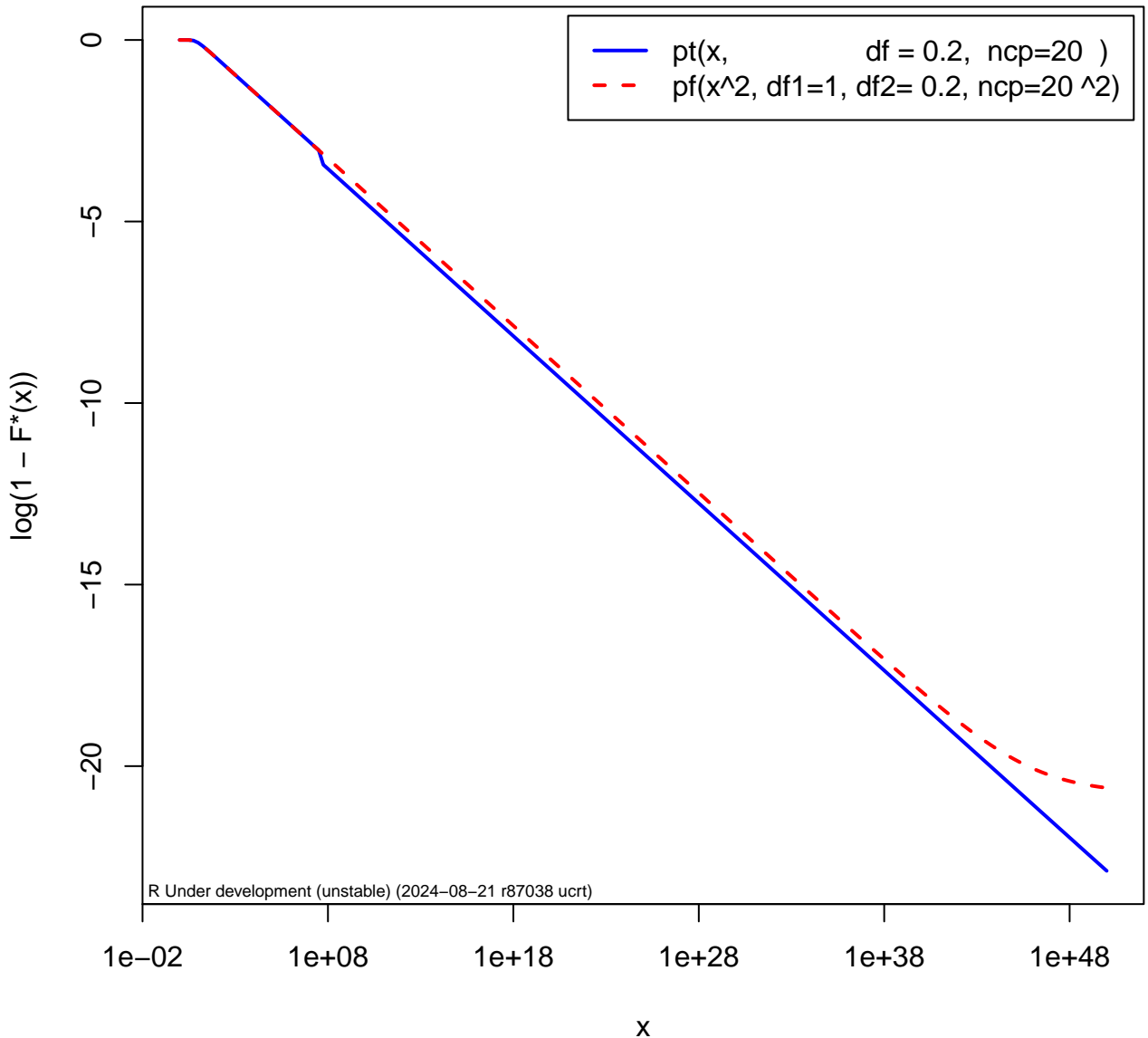
# upper tail prob. $p^*(\dots, \log=TRUE, \text{lower.tail}=FALSE)$



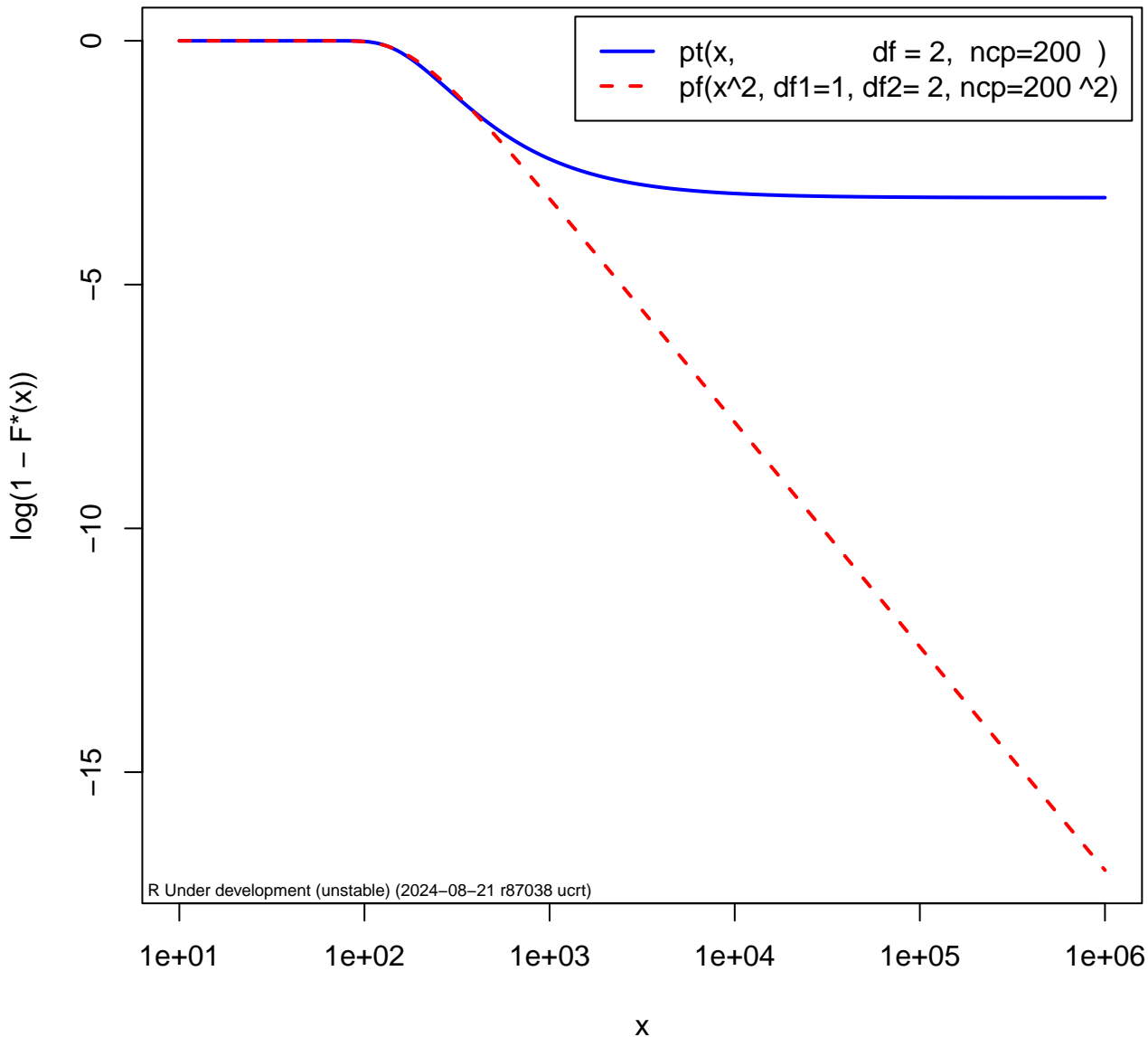
# upper tail prob. $p^*(\dots, \log=\text{TRUE}, \text{lower.tail}=\text{FALSE})$



# upper tail prob. $p^*(\dots, \log=TRUE, \text{lower.tail}=FALSE)$

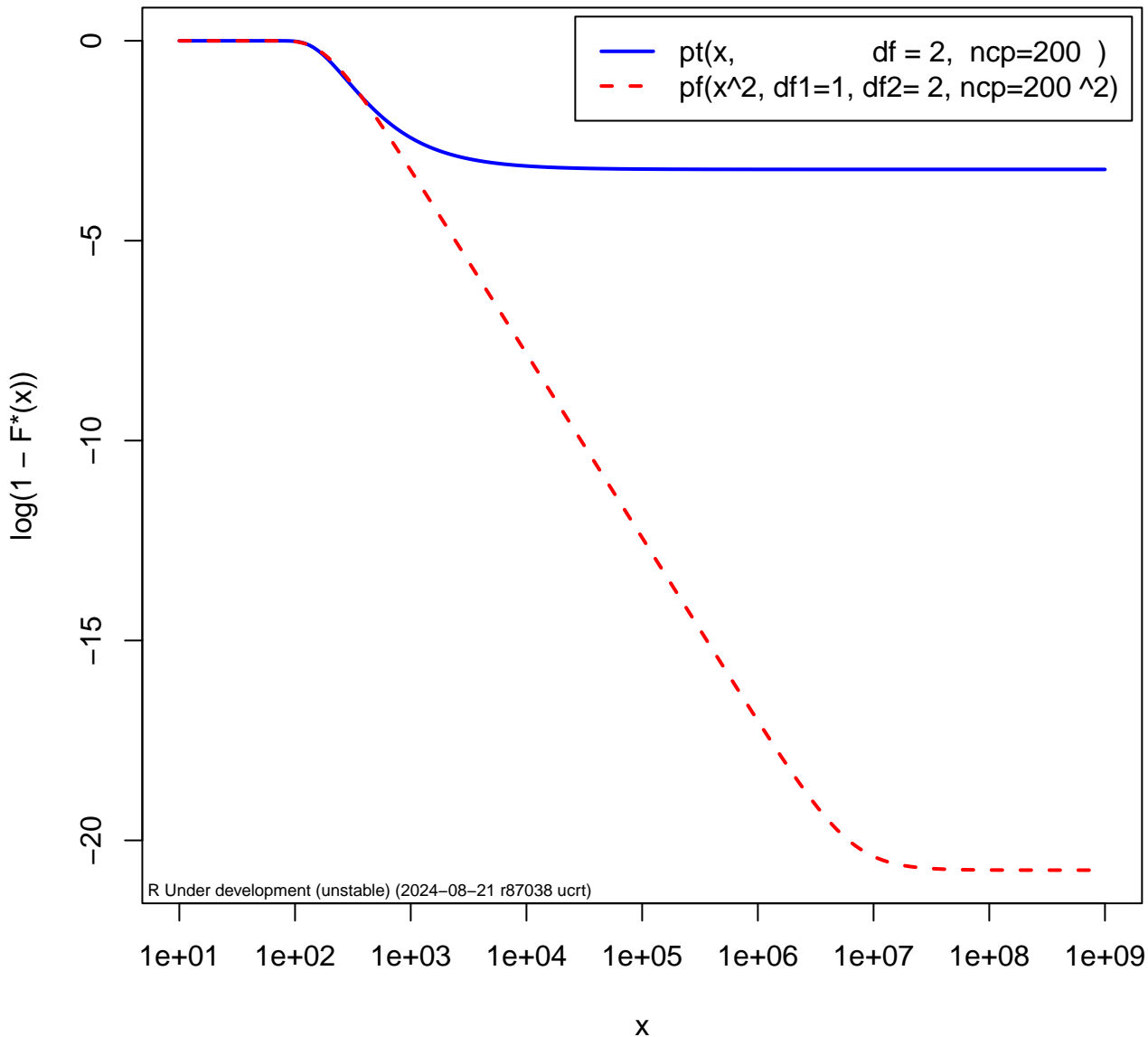


# upper tail prob. $p^*(\dots, \log=TRUE, \text{lower.tail}=FALSE)$

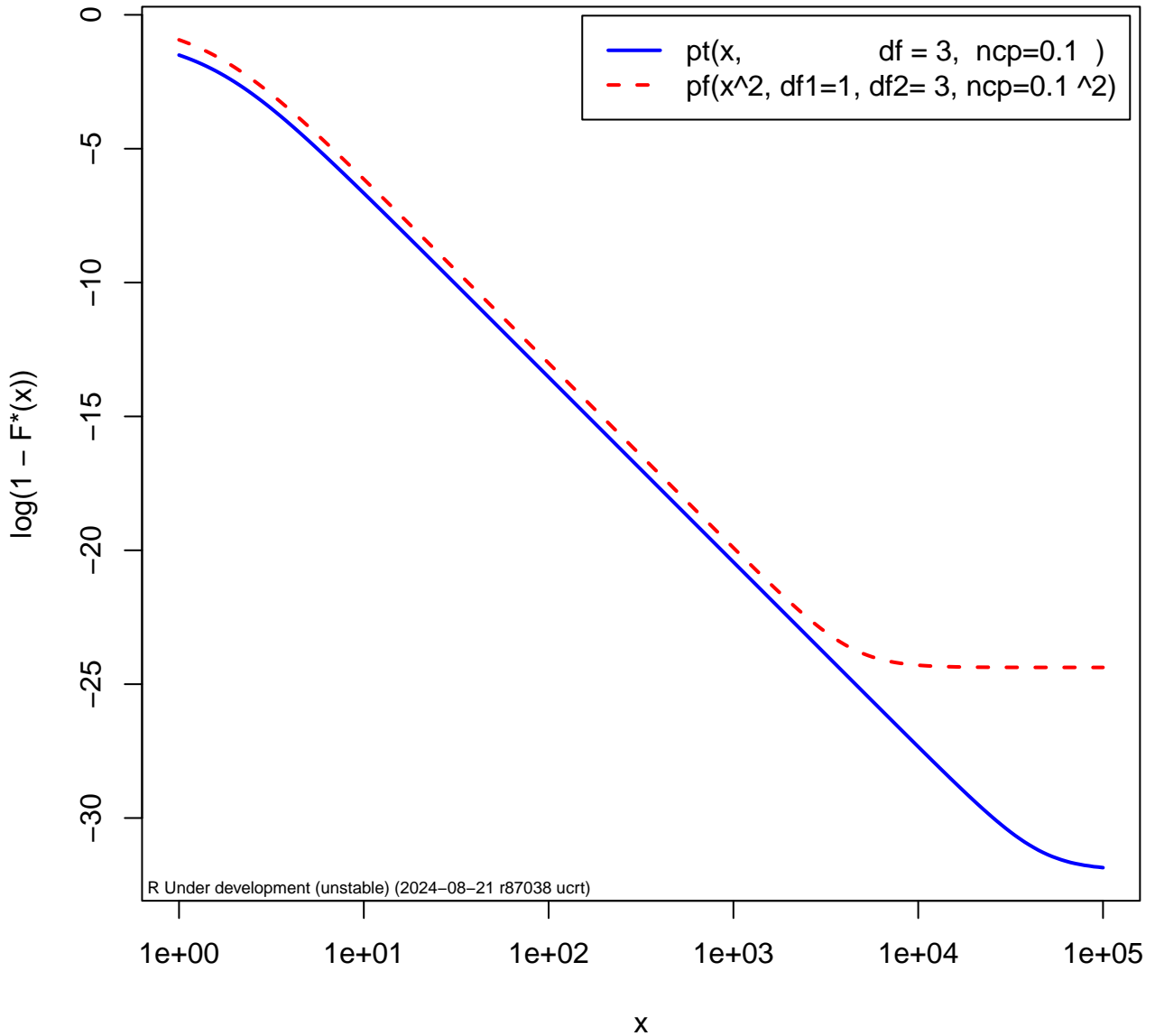




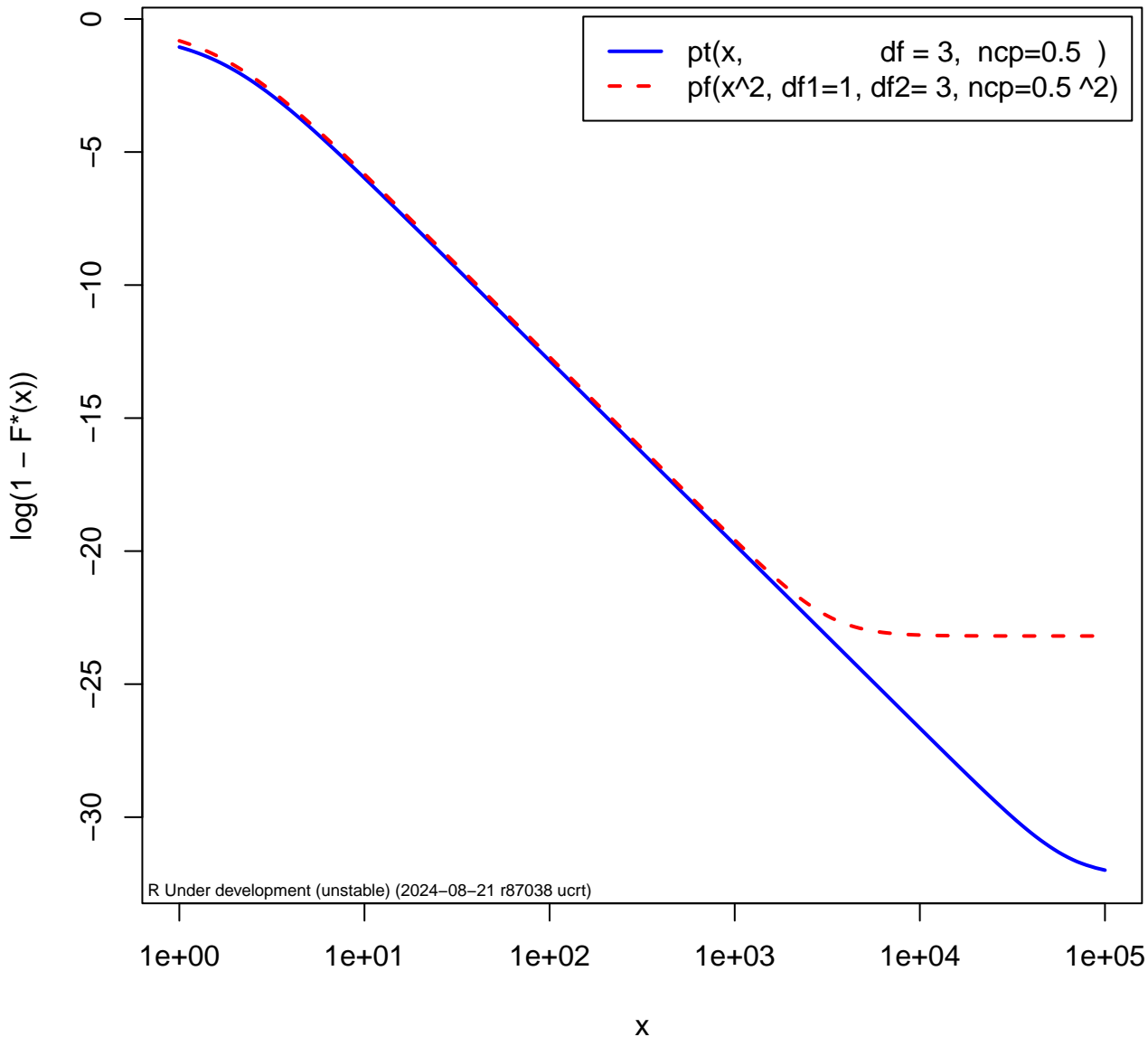
# upper tail prob. $p^*(\dots, \log=\text{TRUE}, \text{lower.tail}=\text{FALSE})$



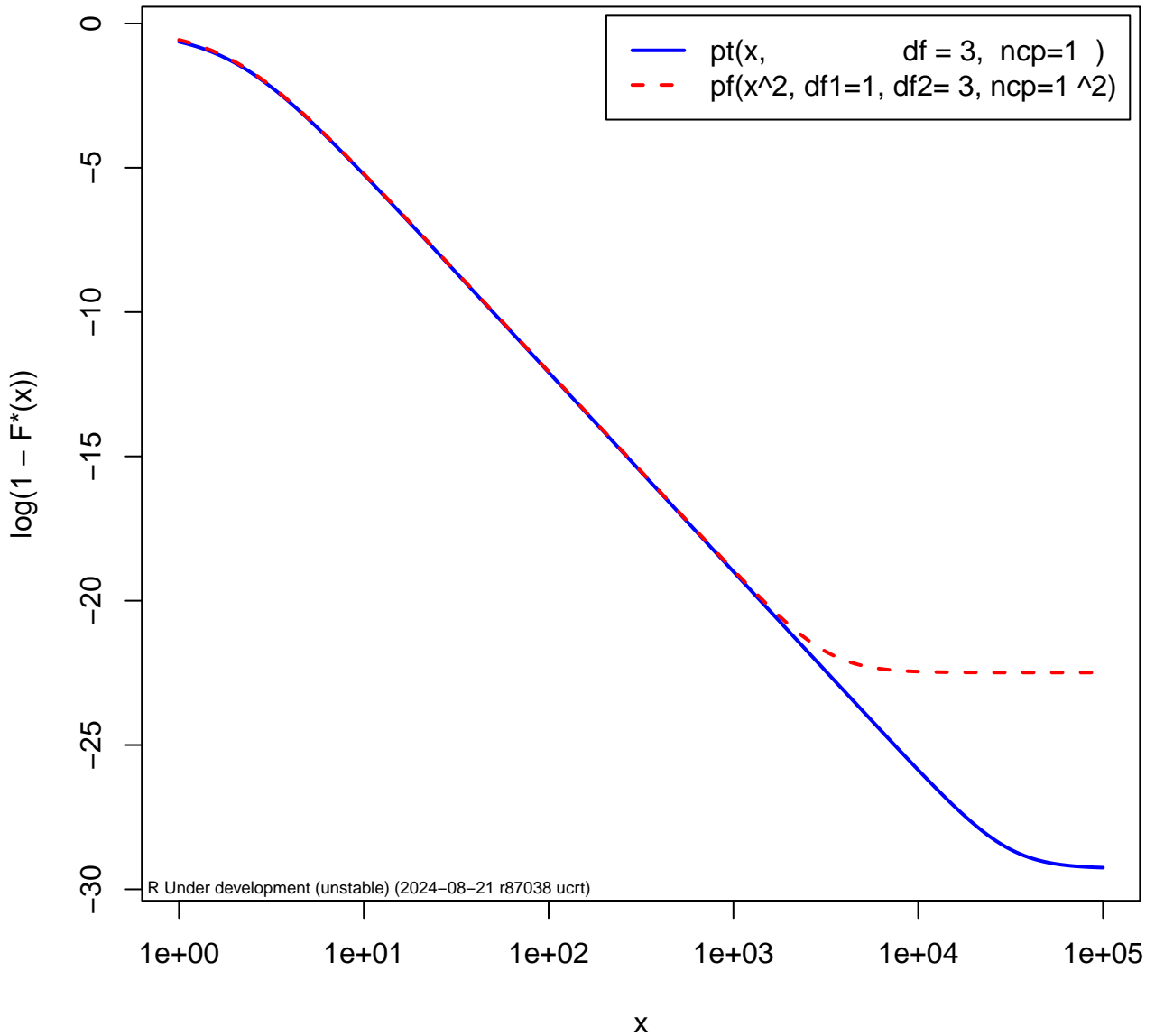
# upper tail prob. $p^*(\dots, \log=TRUE, \text{lower.tail}=FALSE)$



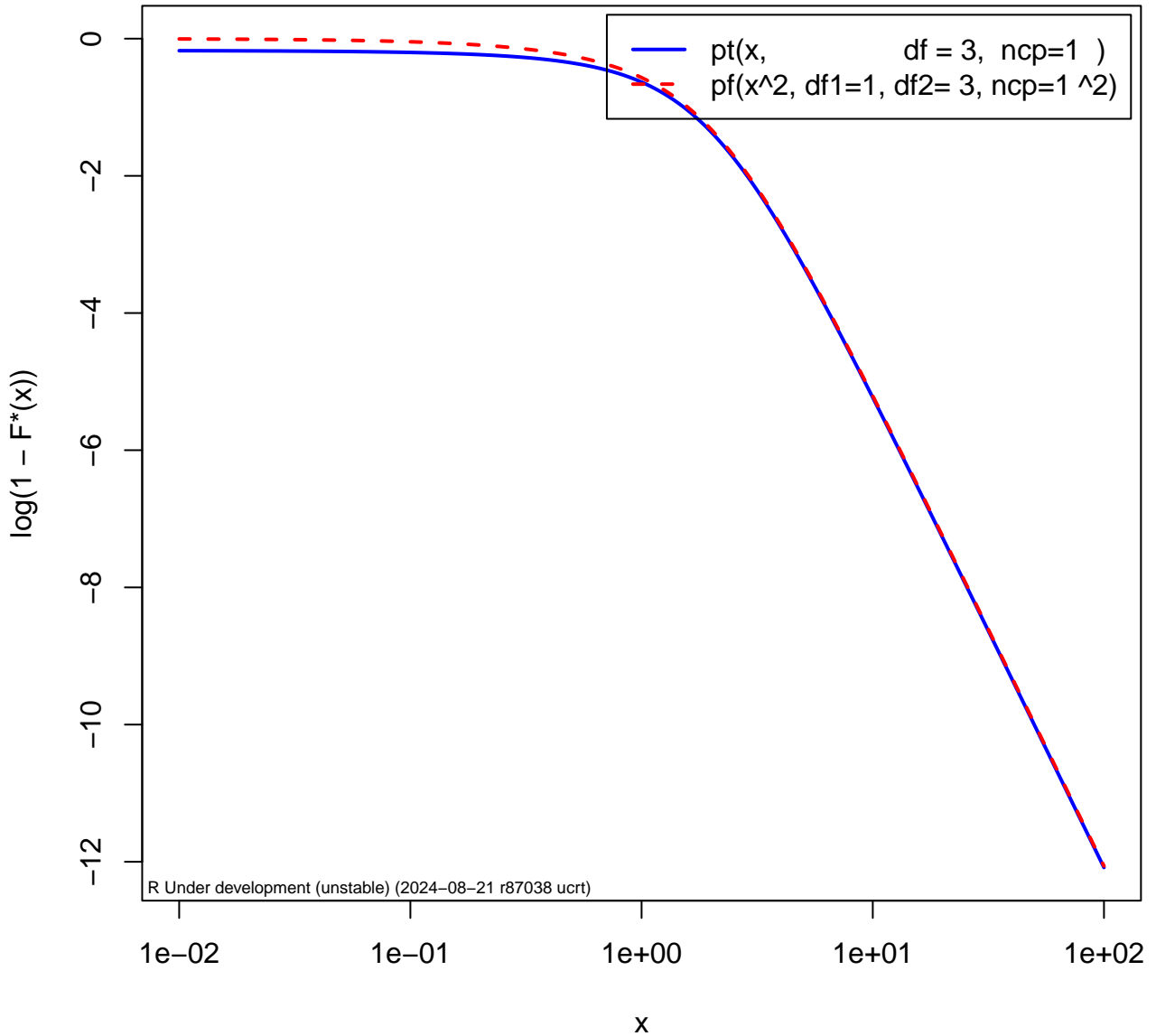
# upper tail prob. $p^*(\dots, \log=\text{TRUE}, \text{lower.tail}=\text{FALSE})$

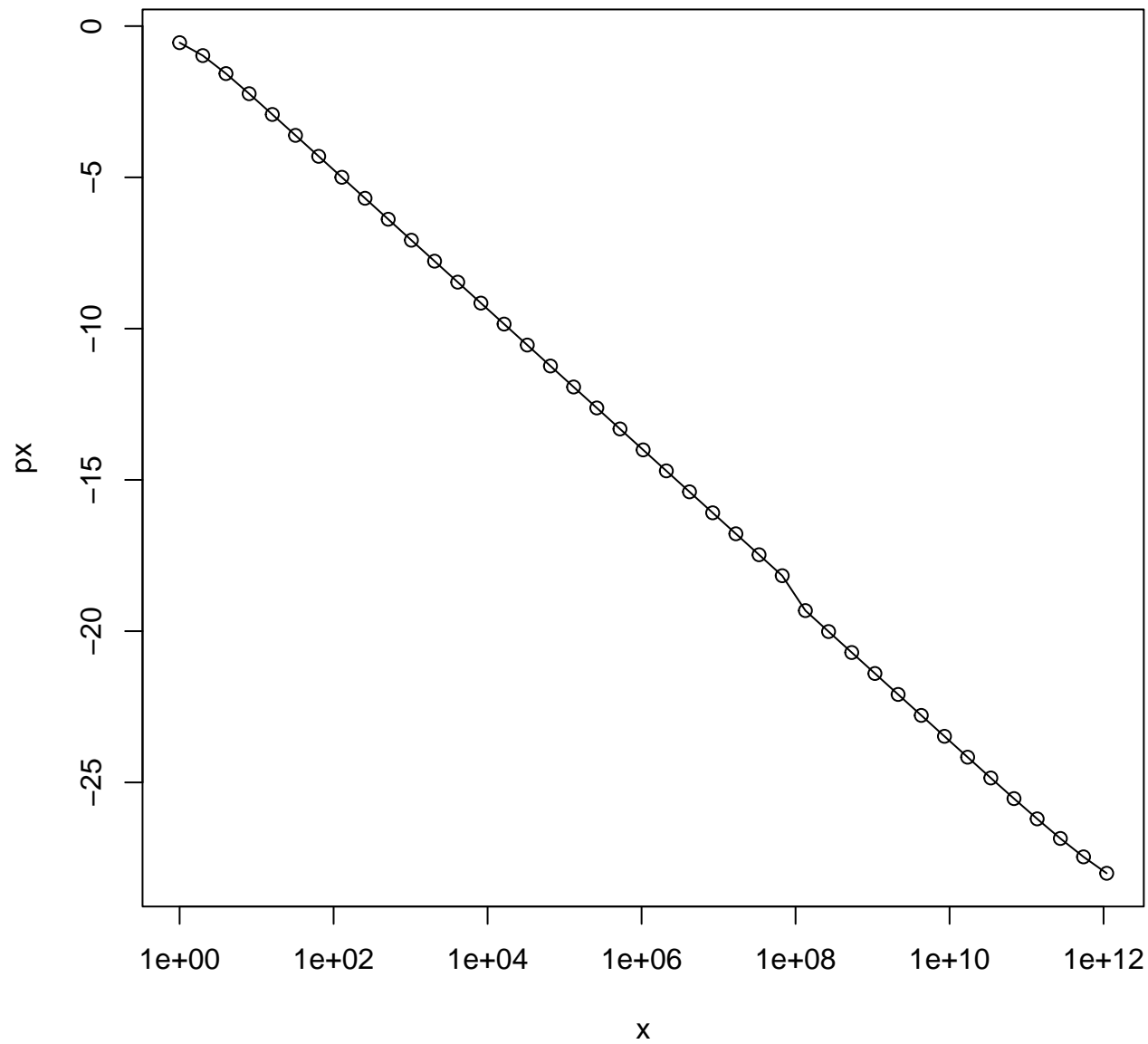


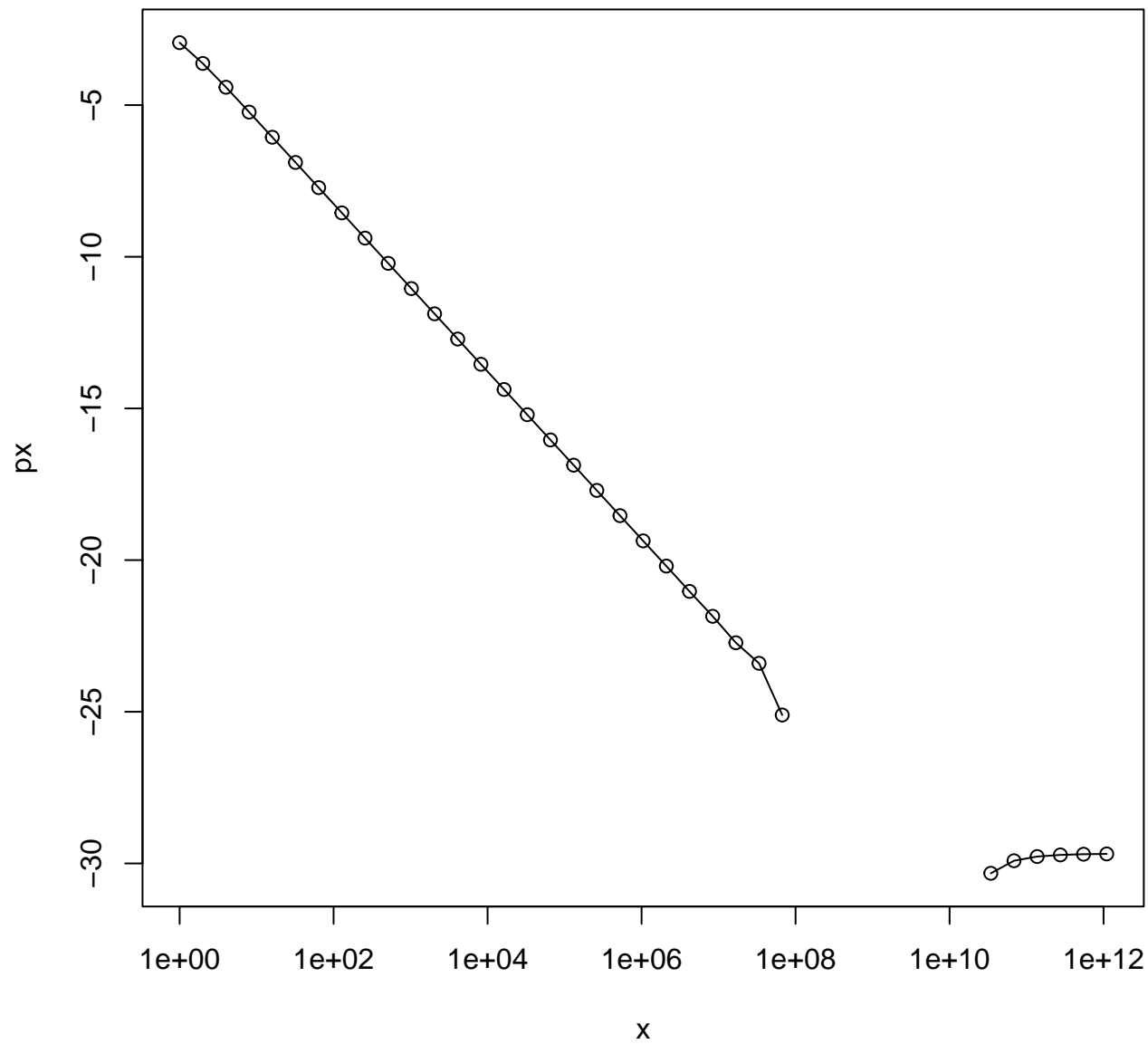
# upper tail prob. $p^*(\dots, \log=TRUE, \text{lower.tail}=FALSE)$

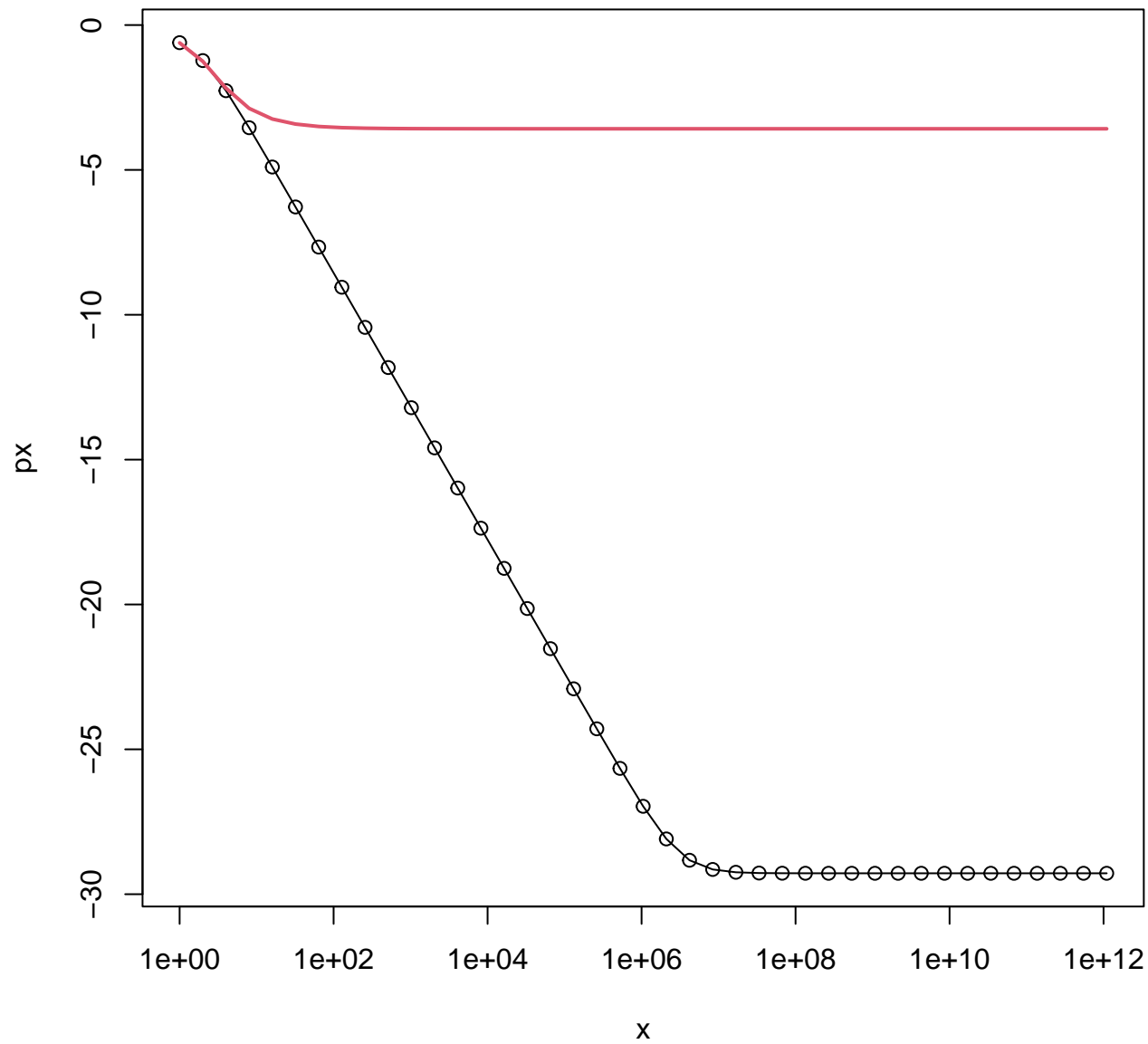


# upper tail prob. $p^*(\dots, \log=TRUE, \text{lower.tail}=FALSE)$

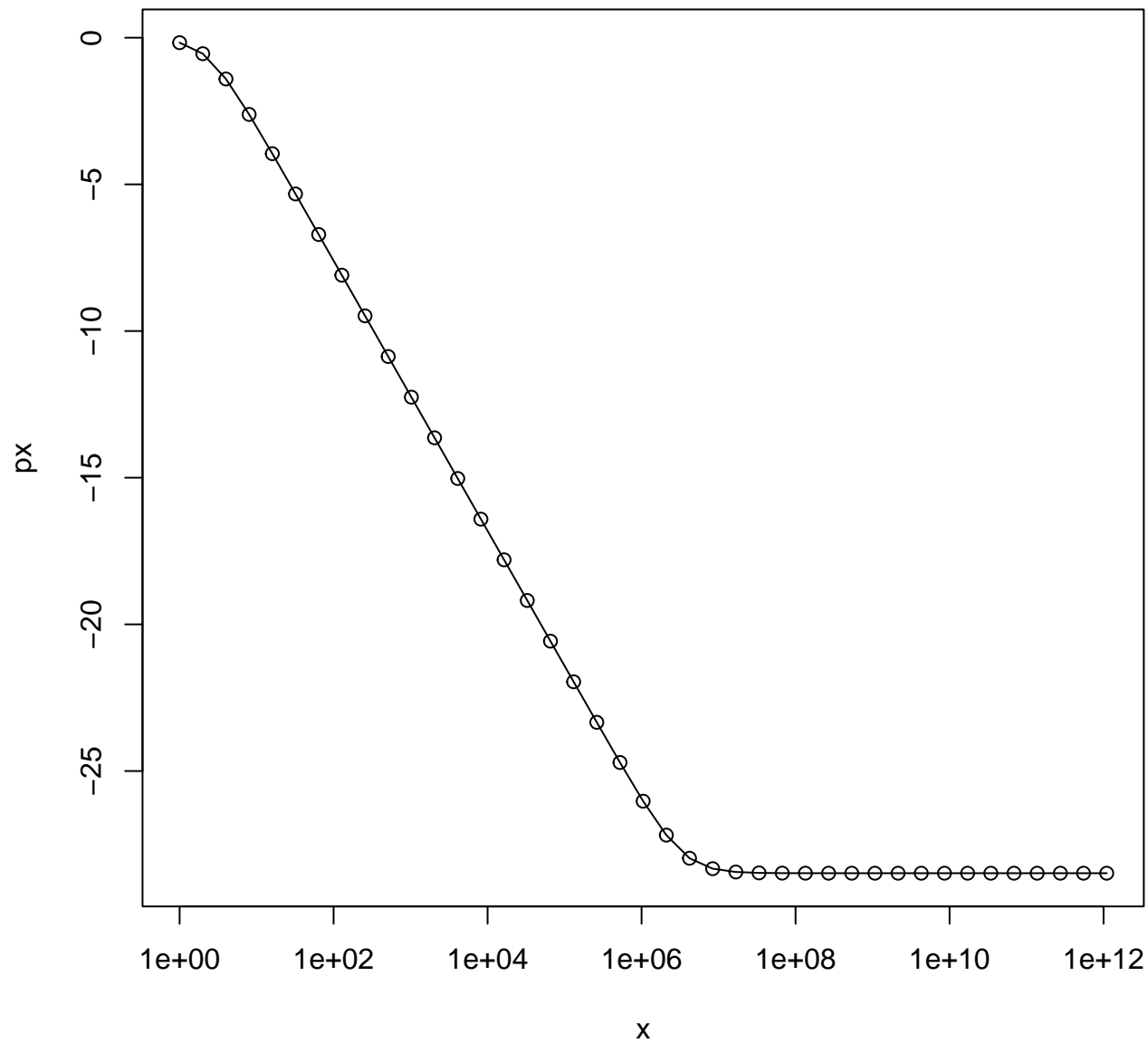


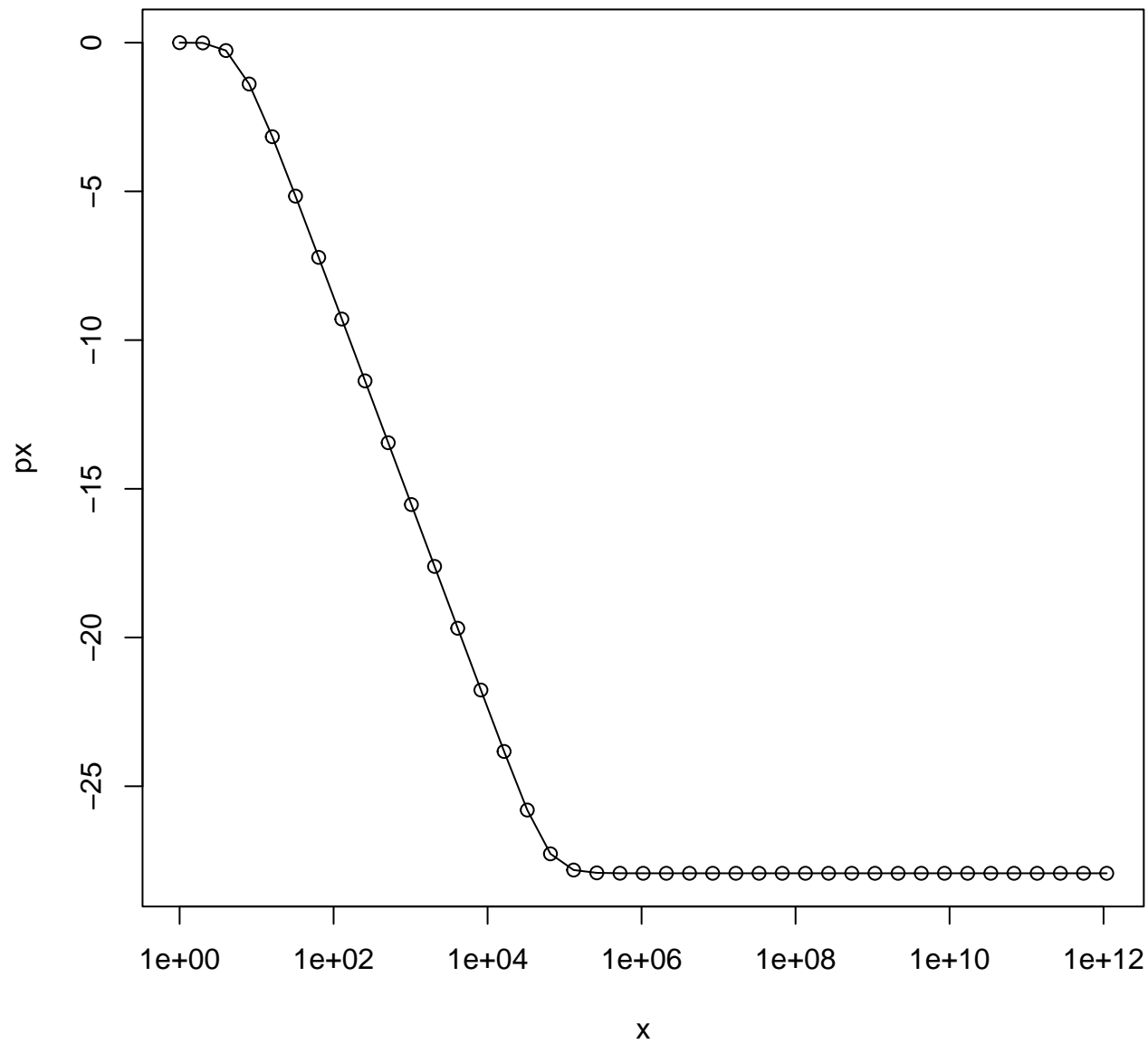


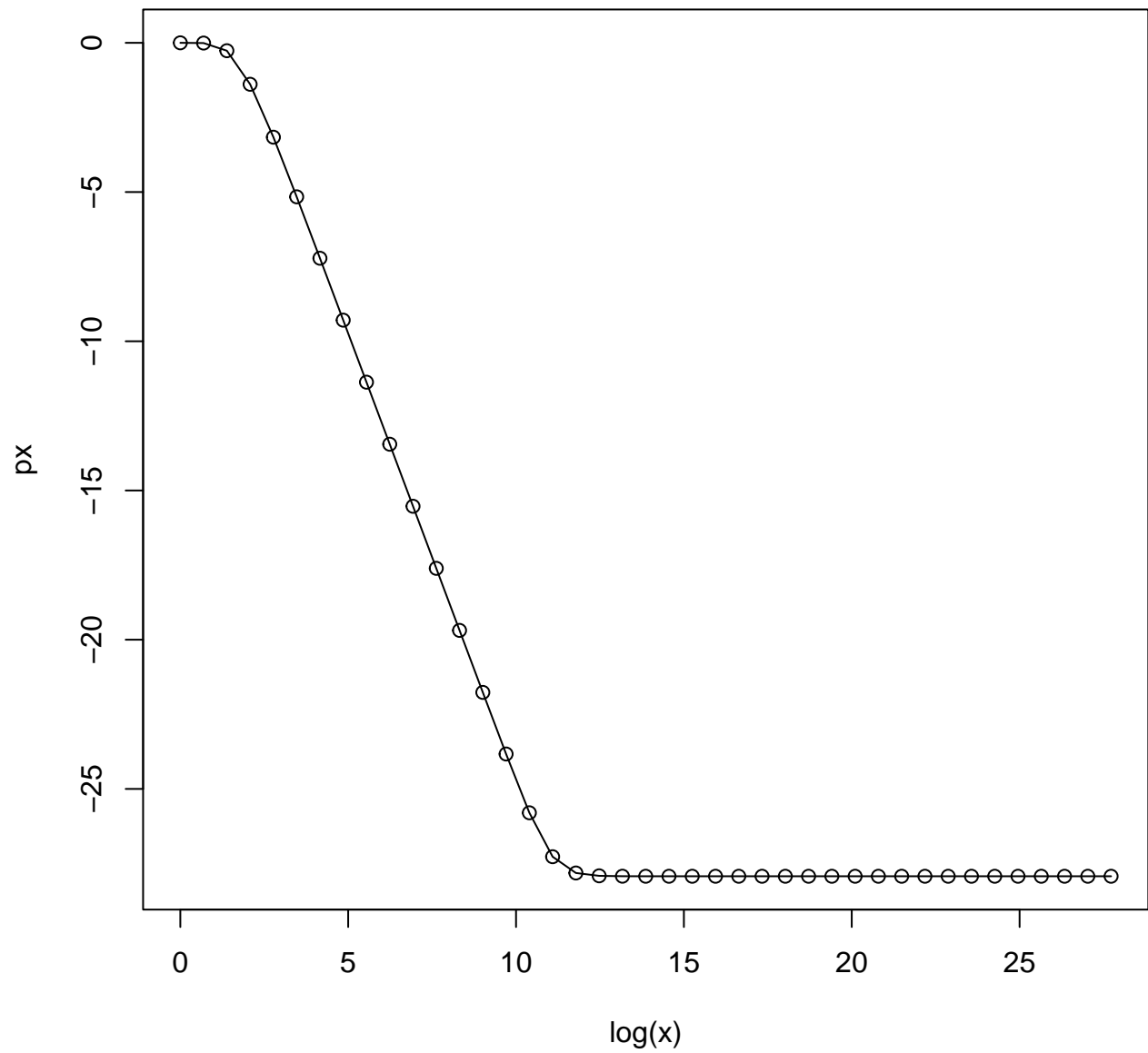








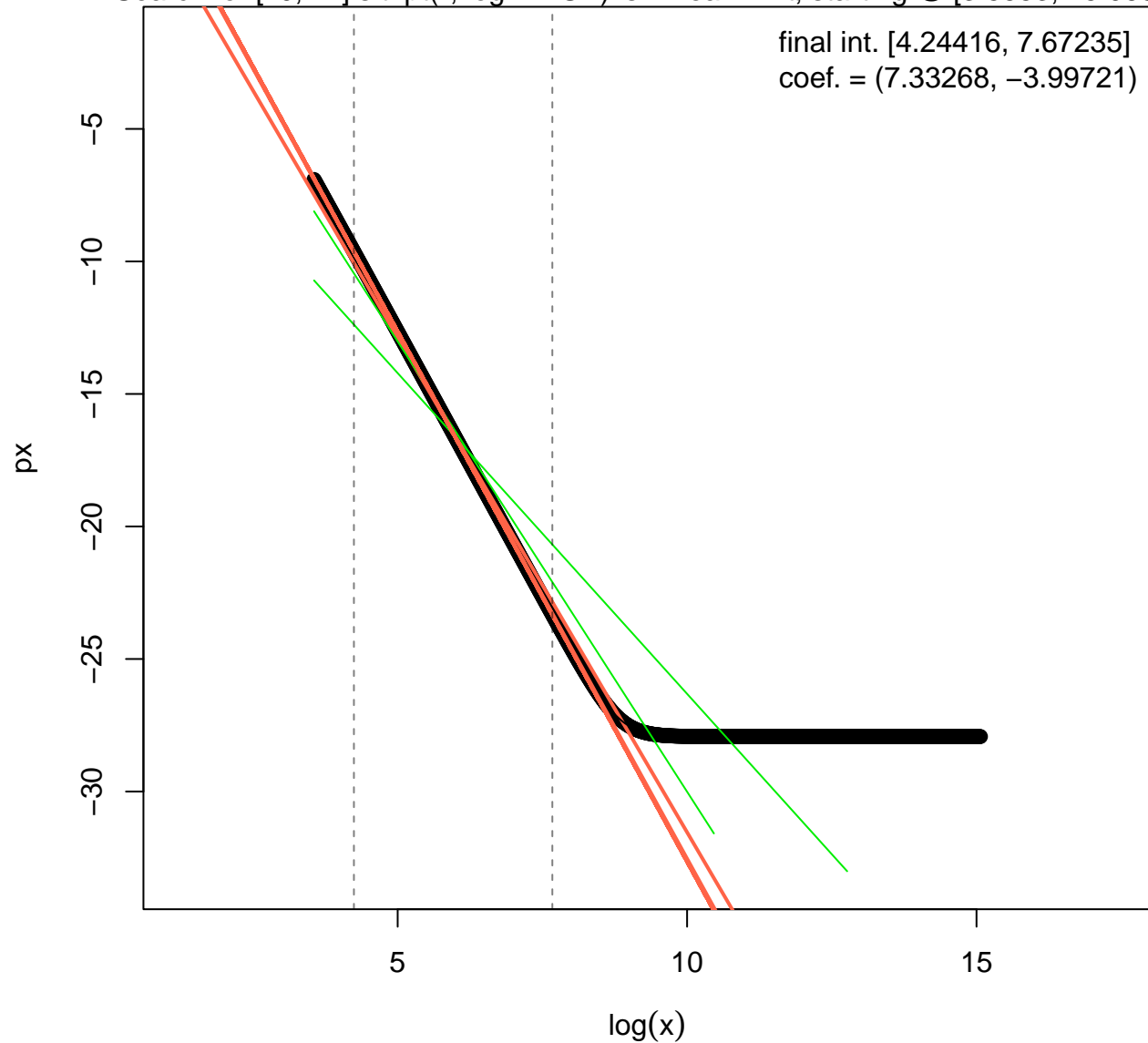




**pt(exp(.), df=4, ncp=5, lower.tail=FALSE, log.p=TRUE)**

Search for  $[x_0, x_1]$  s.t.  $\text{pt}(*, \text{log}=\text{TRUE})$  is *linear* in it; starting @  $[3.5553, 15.0682]$

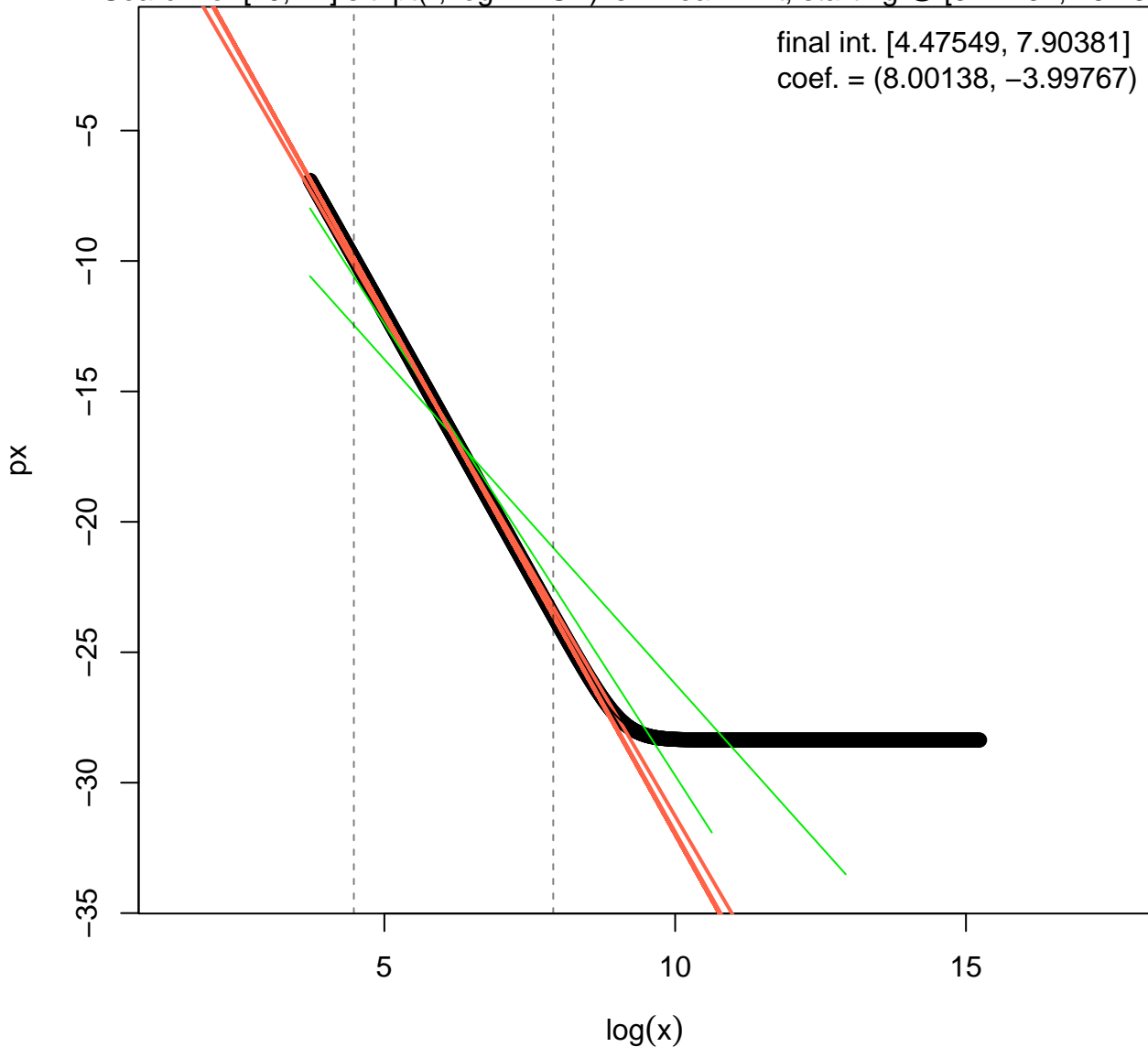
final int.  $[4.24416, 7.67235]$   
coef. =  $(7.33268, -3.99721)$



**pt(exp(.), df=4, ncp=6, lower.tail=FALSE, log.p=TRUE)**

Search for [x0, x1] s.t. pt(\*, log=TRUE) is \*linear\* in it; starting @ [3.72234, 15.2353]

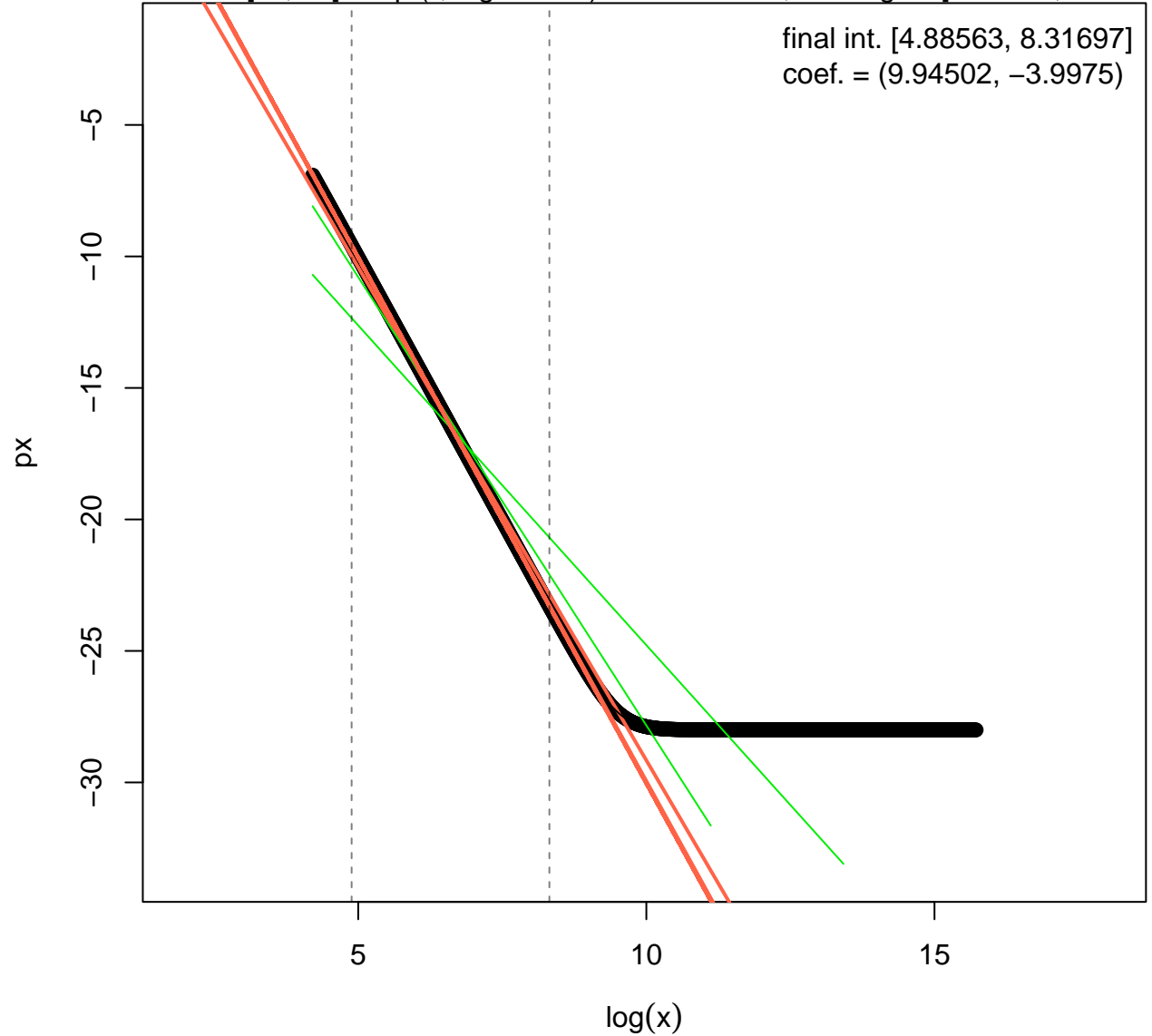
final int. [4.47549, 7.90381]  
coef. = (8.00138, -3.99767)



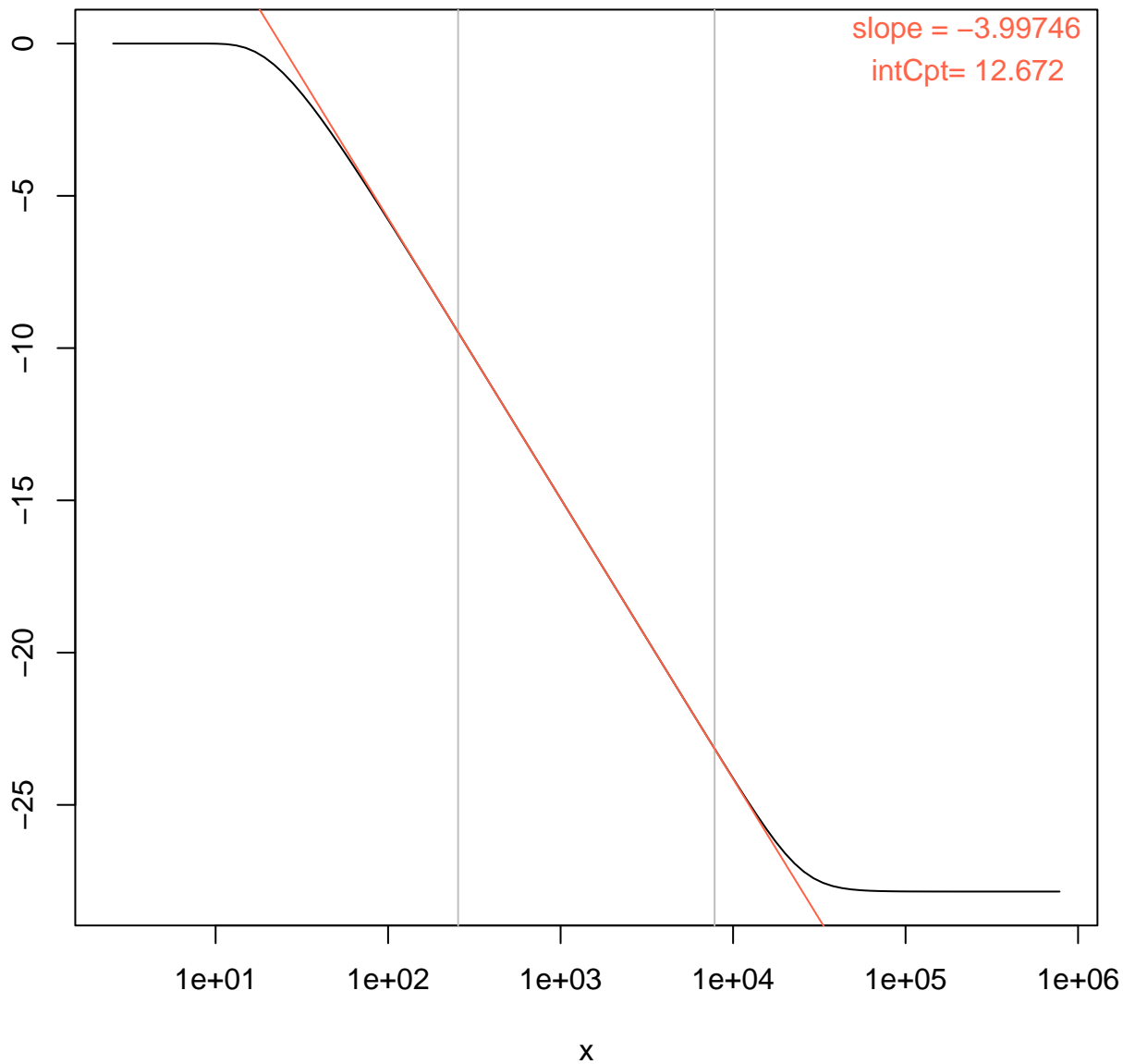
**pt(exp(.), df=4, ncp=10, lower.tail=FALSE, log.p=TRUE)**

Search for [x0, x1] s.t. pt(\*, log=TRUE) is \*linear\* in it; starting @ [4.20946, 15.7224]

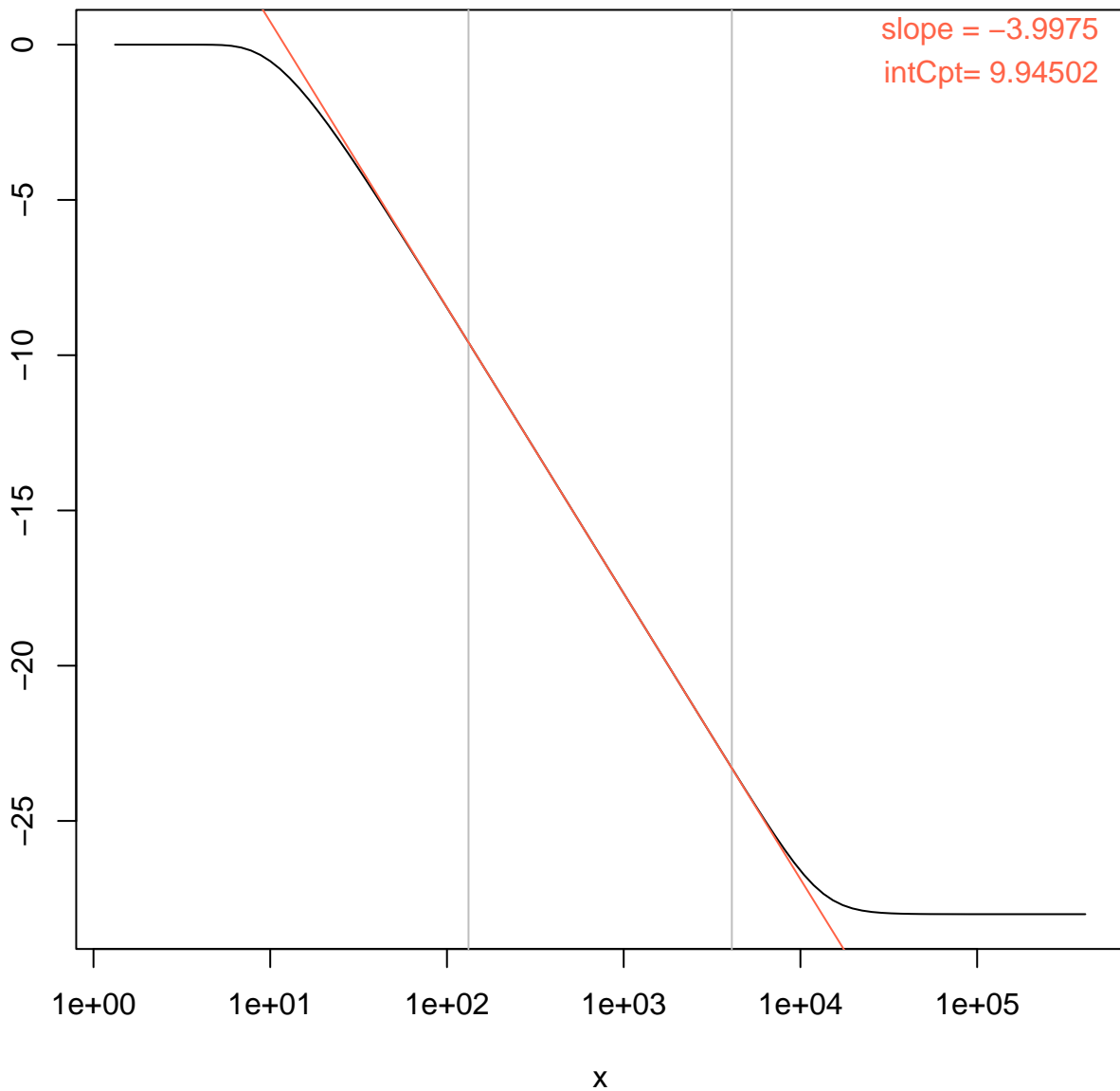
final int. [4.88563, 8.31697]  
coef. = (9.94502, -3.9975)



**pt(x, df=4, ncp=20, log=TRUE, lower.tail=FALSE)**

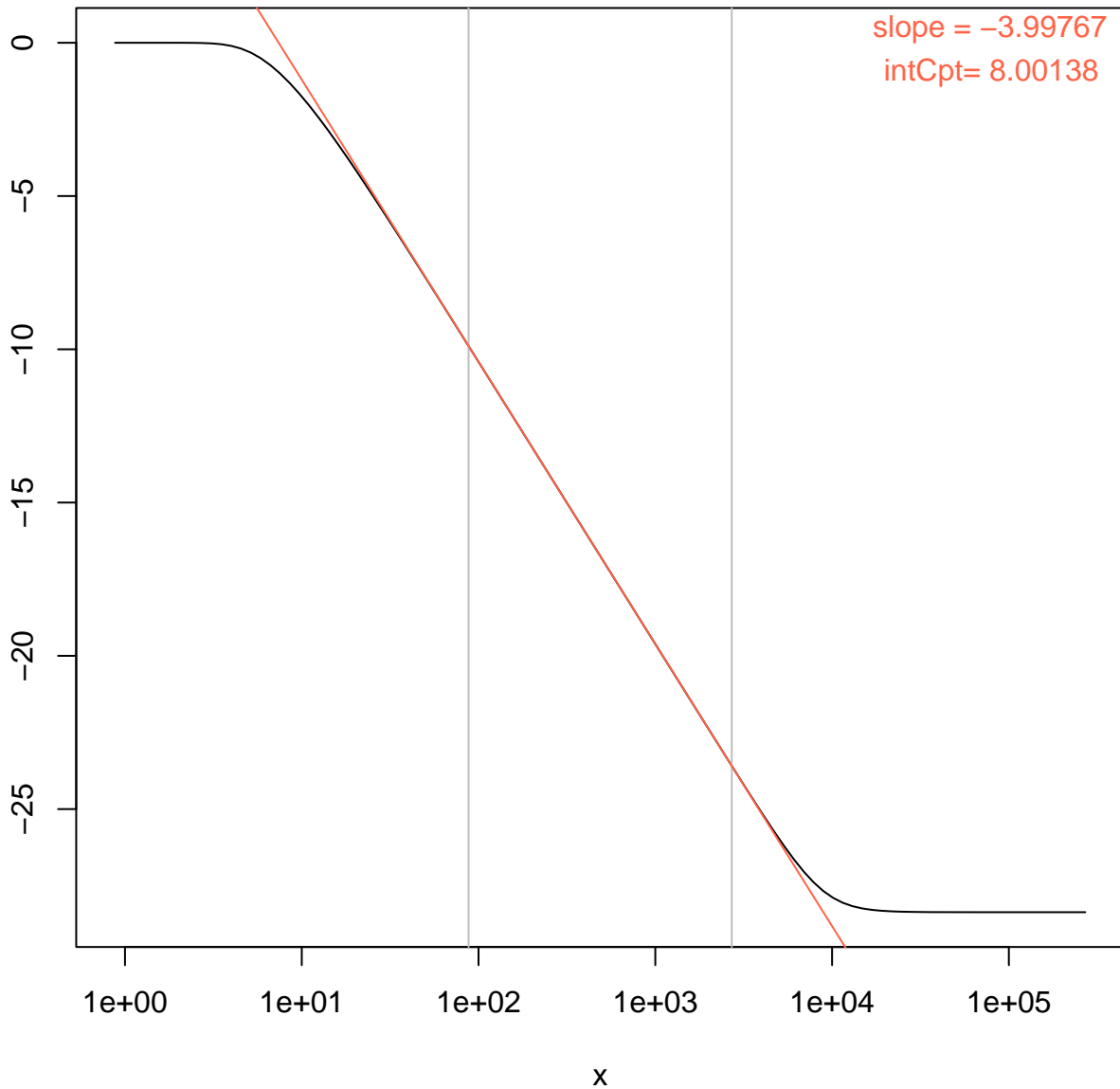


**pt(x, df=4, ncp=10, log=TRUE, lower.tail=FALSE)**

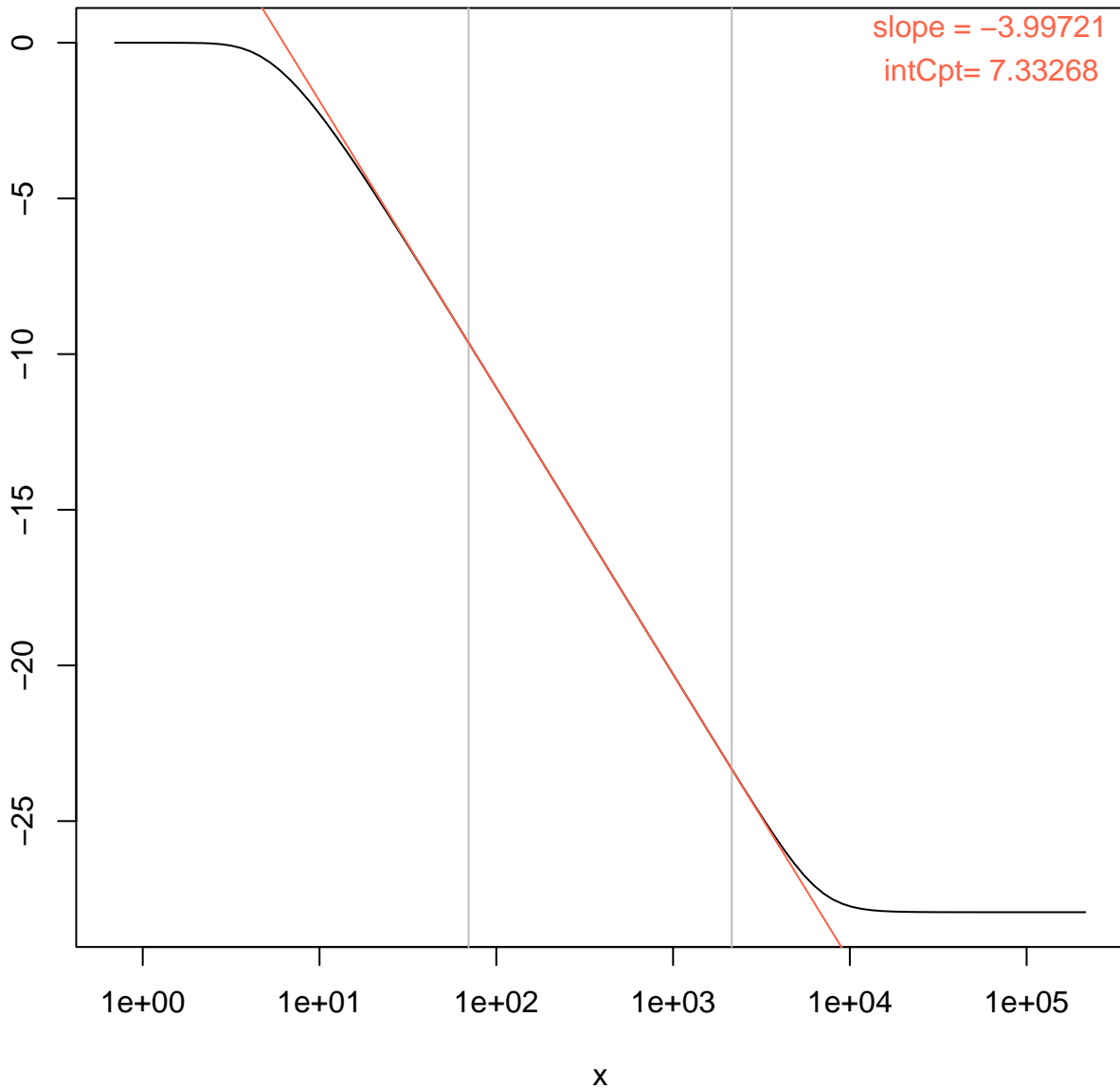




**pt(x, df=4, ncp=6, log=TRUE, lower.tail=FALSE)**

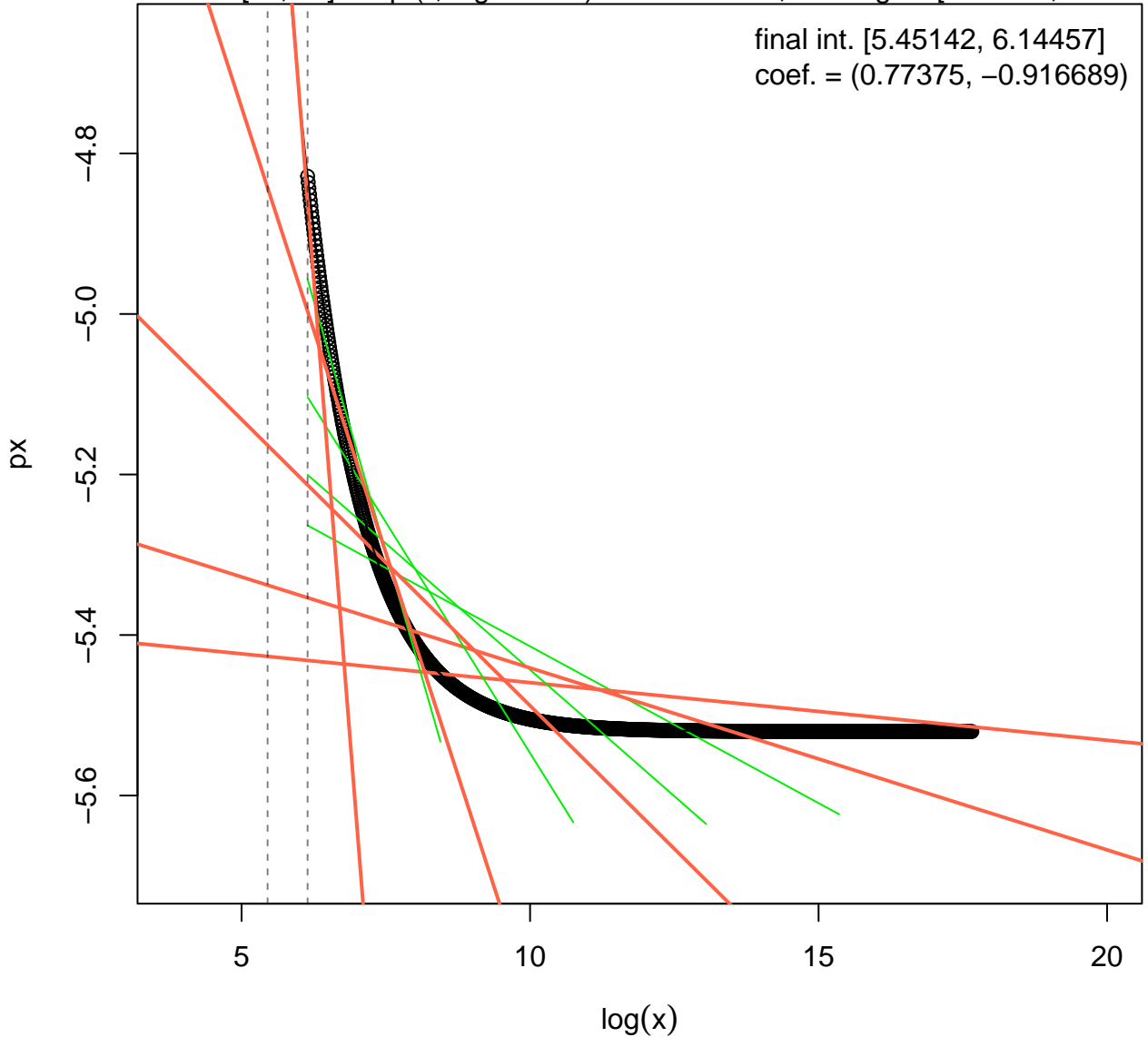


**pt(x, df=4, ncp=5, log=TRUE, lower.tail=FALSE)**

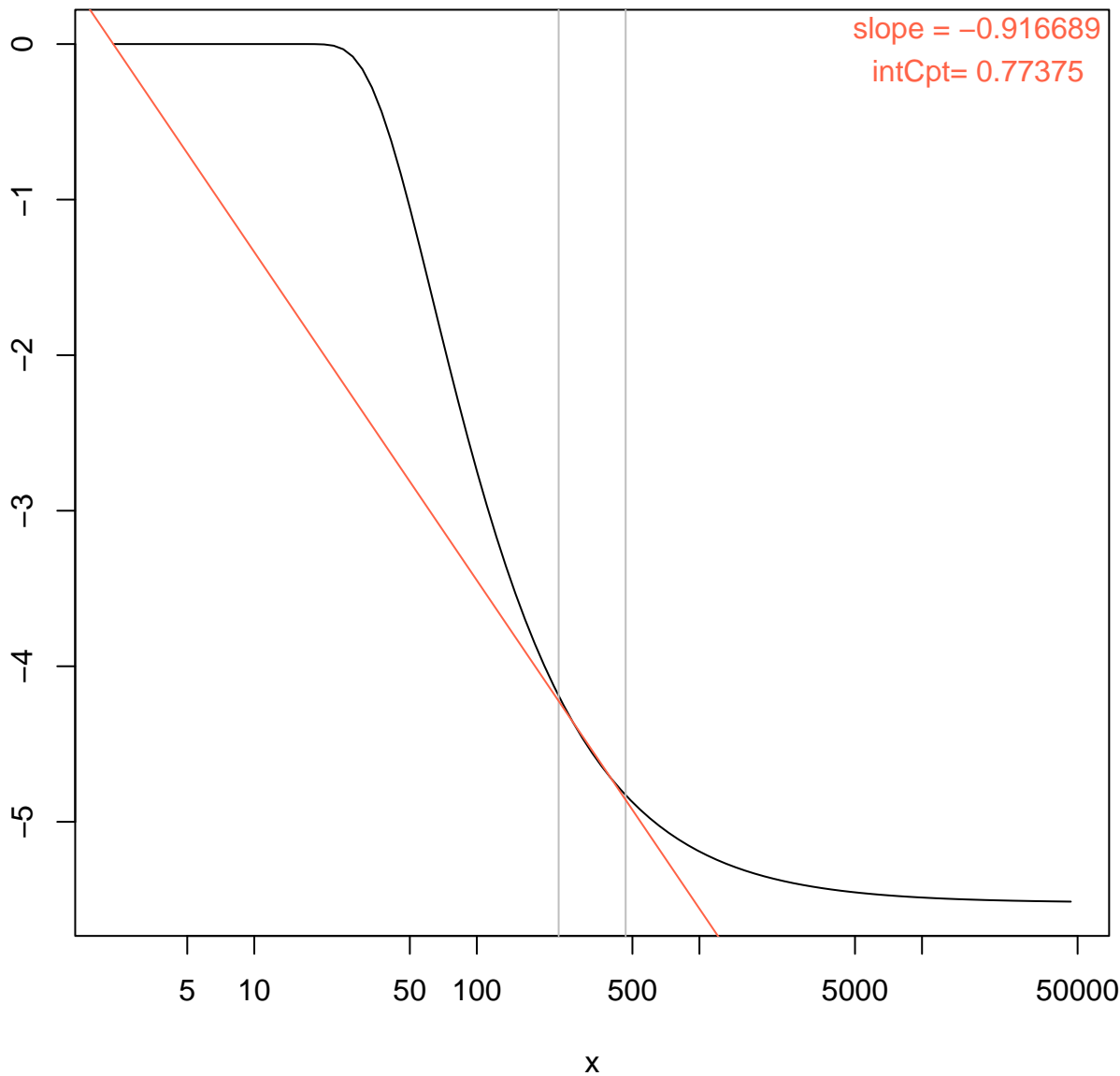


**pt(exp(.), df=4, ncp=40, lower.tail=FALSE, log.p=TRUE)**

Search for [x0, x1] s.t. pt(\*, log=TRUE) is \*linear\* in it; starting @ [6.14457, 17.6575]

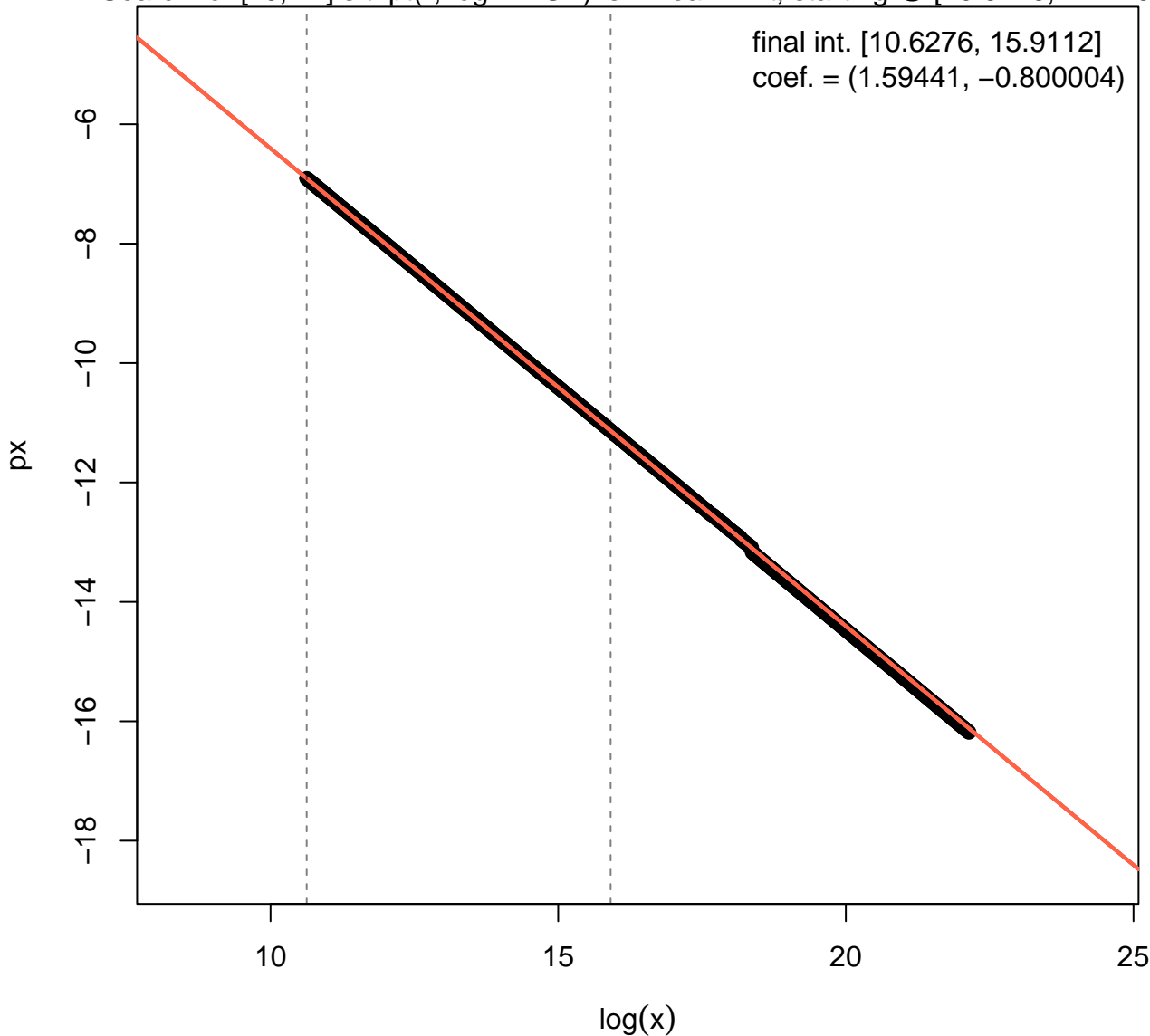


**pt(x, df=4, ncp=40, log=TRUE, lower.tail=FALSE)**

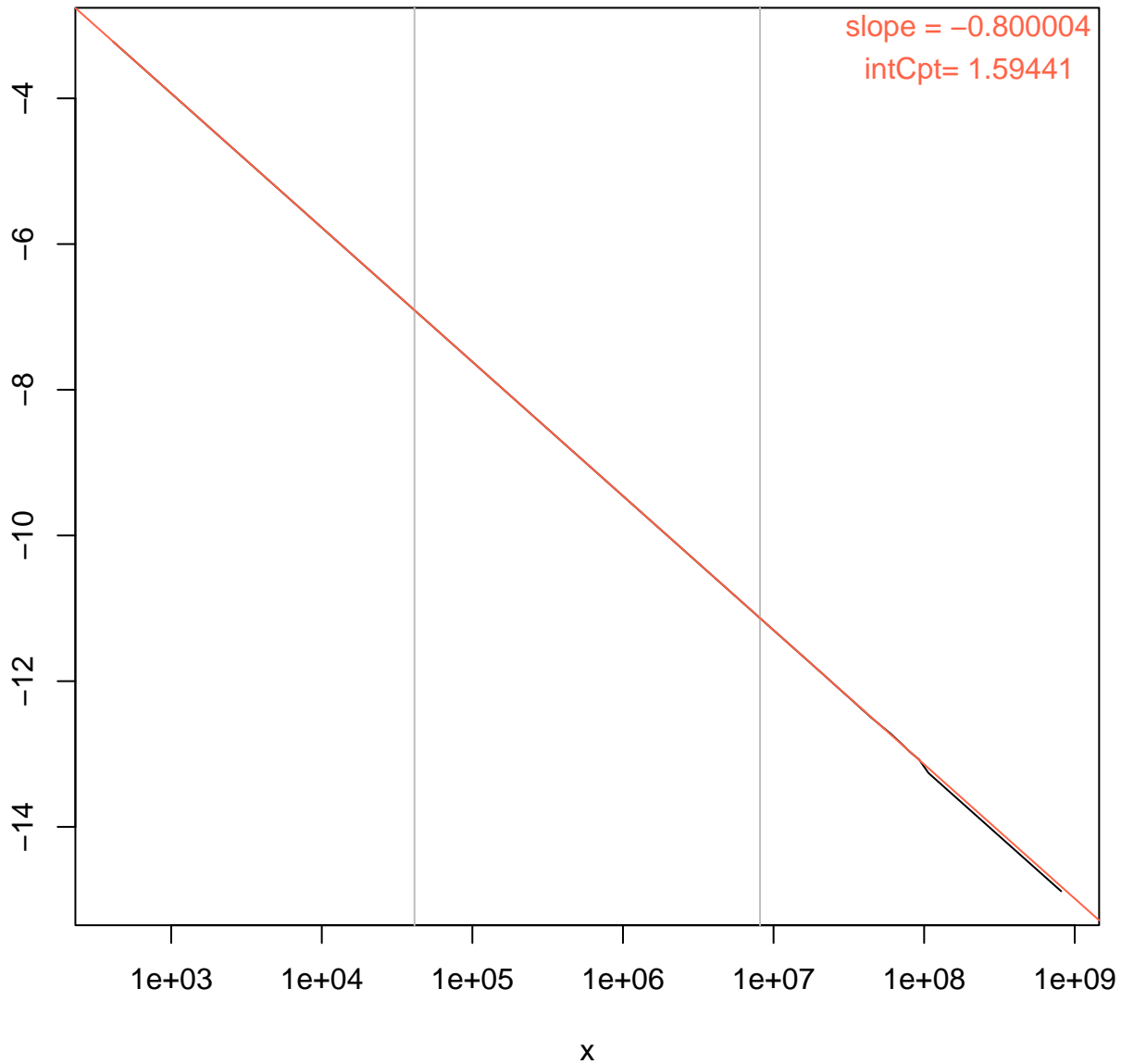


# pt(exp(.), df=0.8, ncp=10, lower.tail=FALSE, log.p=TRUE)

Search for [x0, x1] s.t. pt(\*, log=TRUE) is \*linear\* in it; starting @ [10.6276, 22.1406]

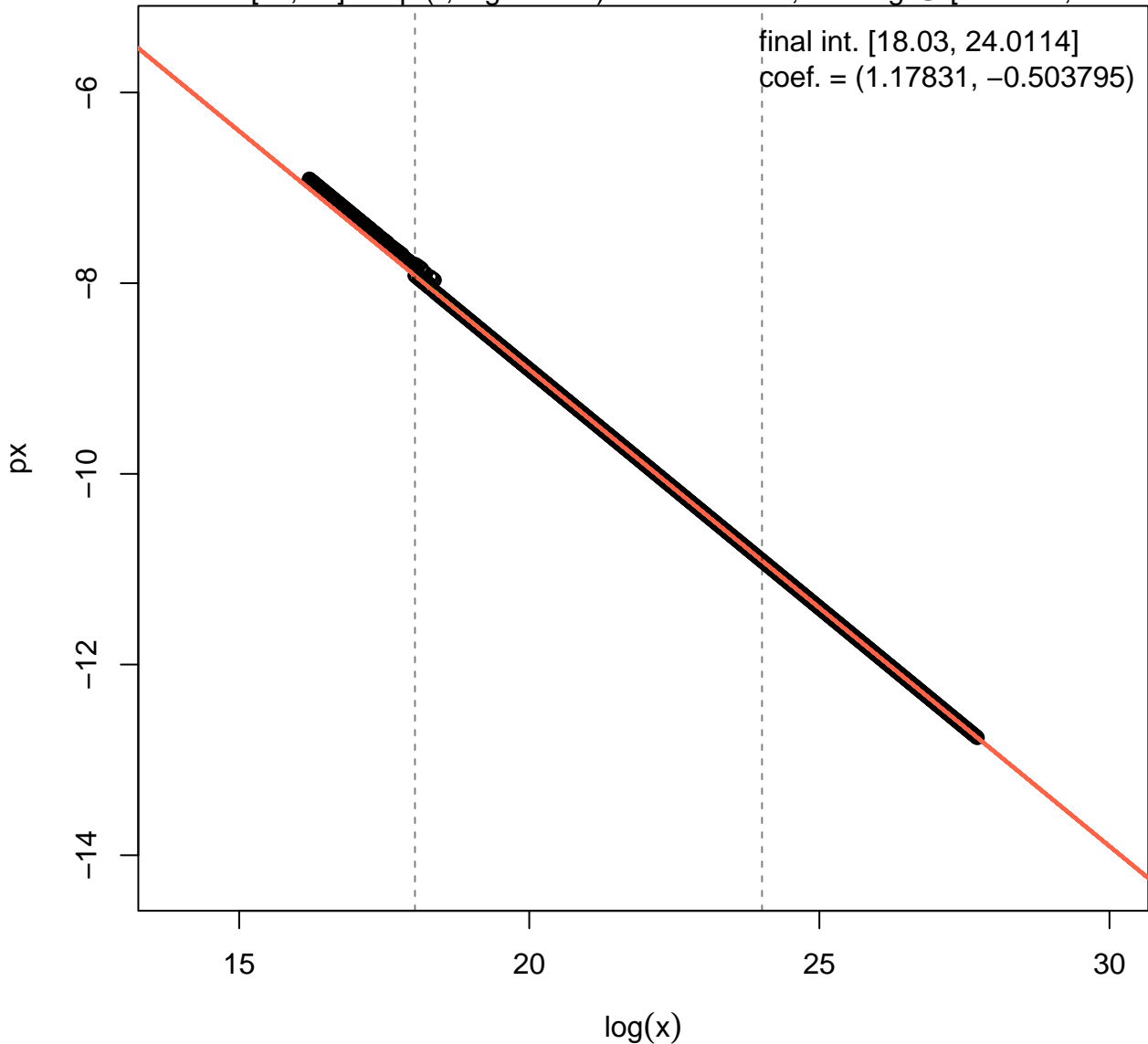


**pt(x, df=0.8, ncp=10, log=TRUE, lower.tail=FALSE)**

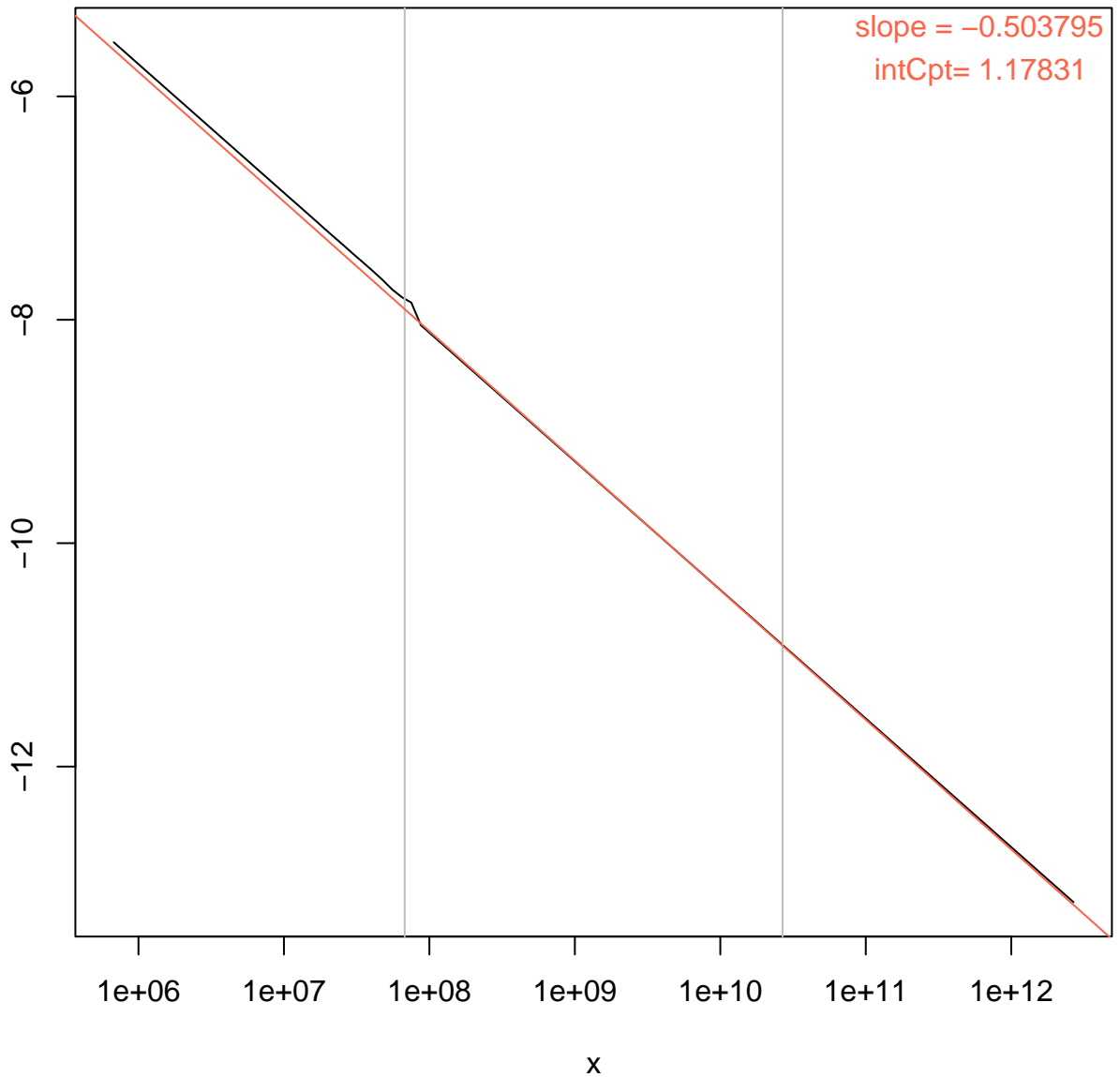


**pt(exp(.), df=0.5, ncp=18, lower.tail=FALSE, log.p=TRUE)**

Search for  $[x_0, x_1]$  s.t.  $\text{pt}(*, \text{log}=\text{TRUE})$  is \*linear\* in it; starting @  $[16.2091, 27.722]$



**pt(x, df=0.5, ncp=18, log=TRUE, lower.tail=FALSE)**

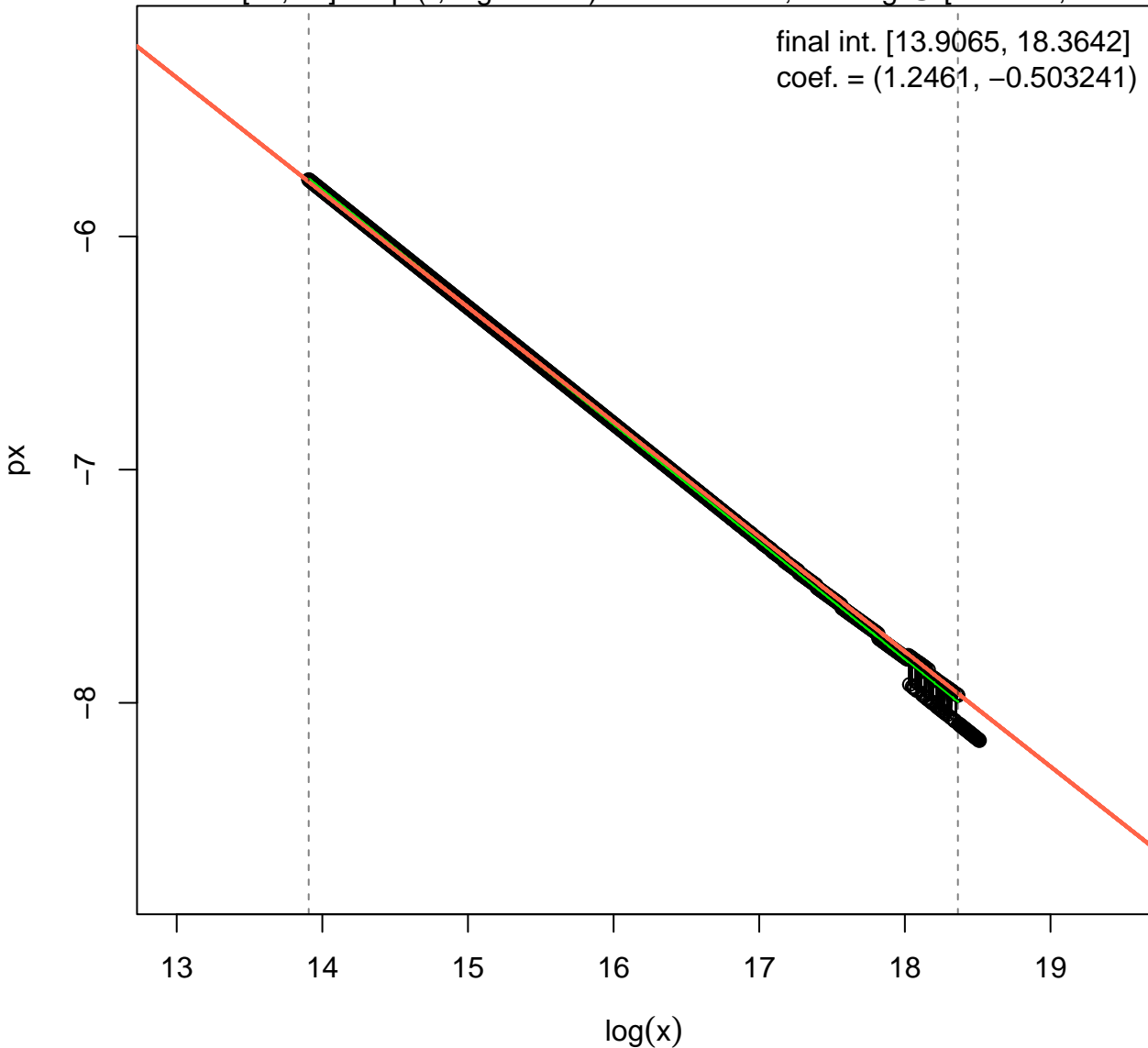




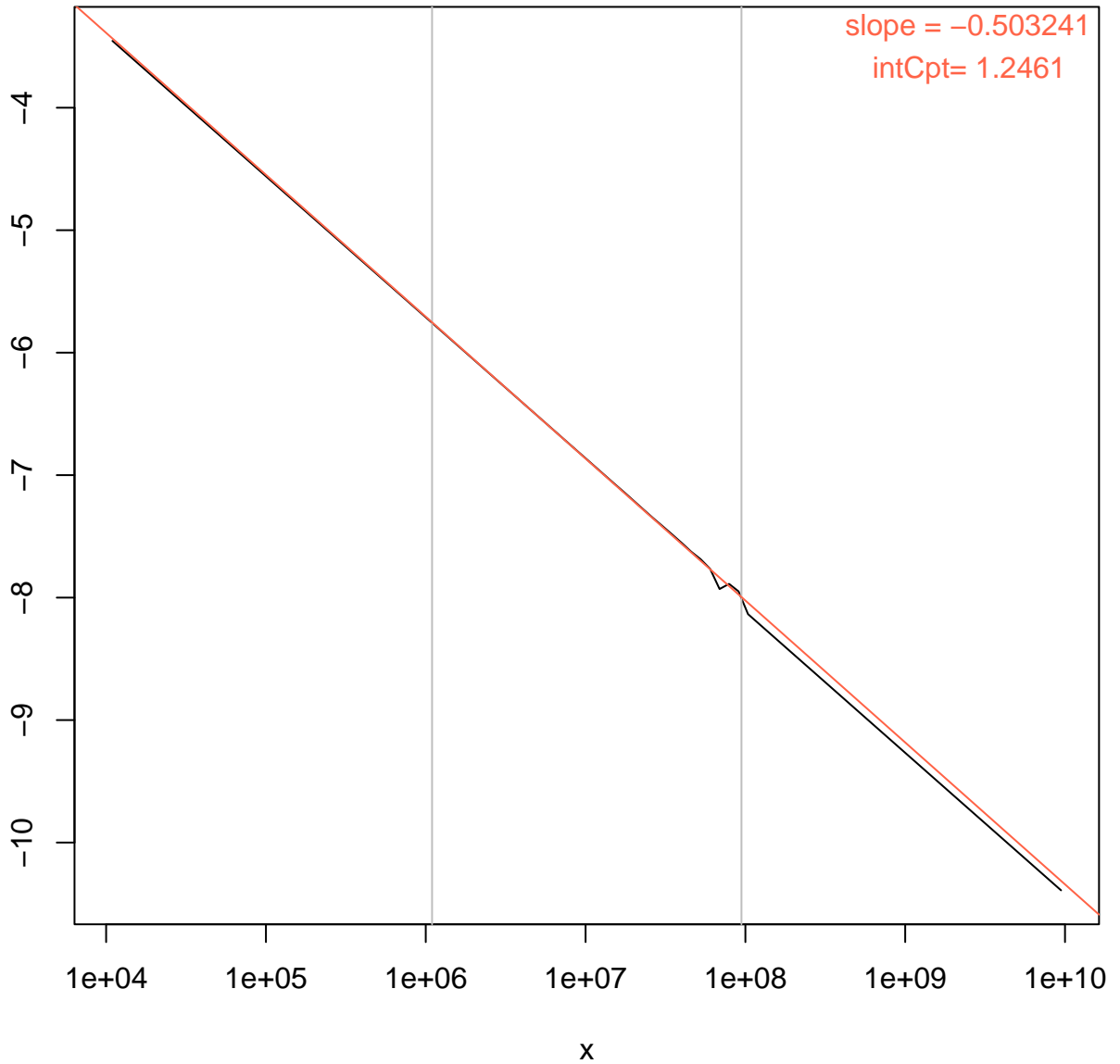
**pt(exp(.), df=0.5, ncp=18, lower.tail=FALSE, log.p=TRUE)**

Search for [x0, x1] s.t. pt(\*, log=TRUE) is \*linear\* in it; starting @ [13.9065, 18.5117]

final int. [13.9065, 18.3642]  
coef. = (1.2461, -0.503241)

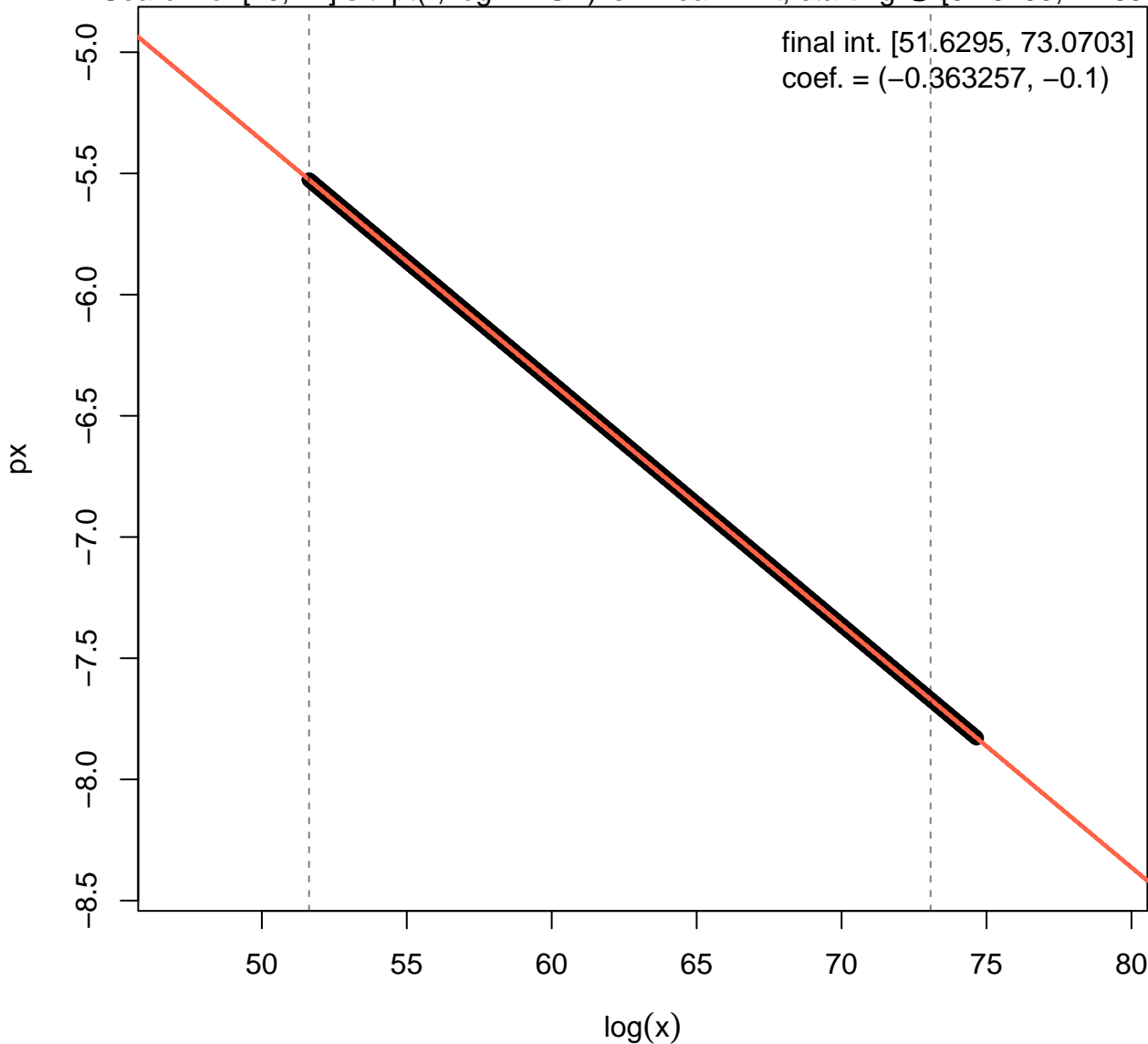


**pt(x, df=0.5, ncp=18, log=TRUE, lower.tail=FALSE)**

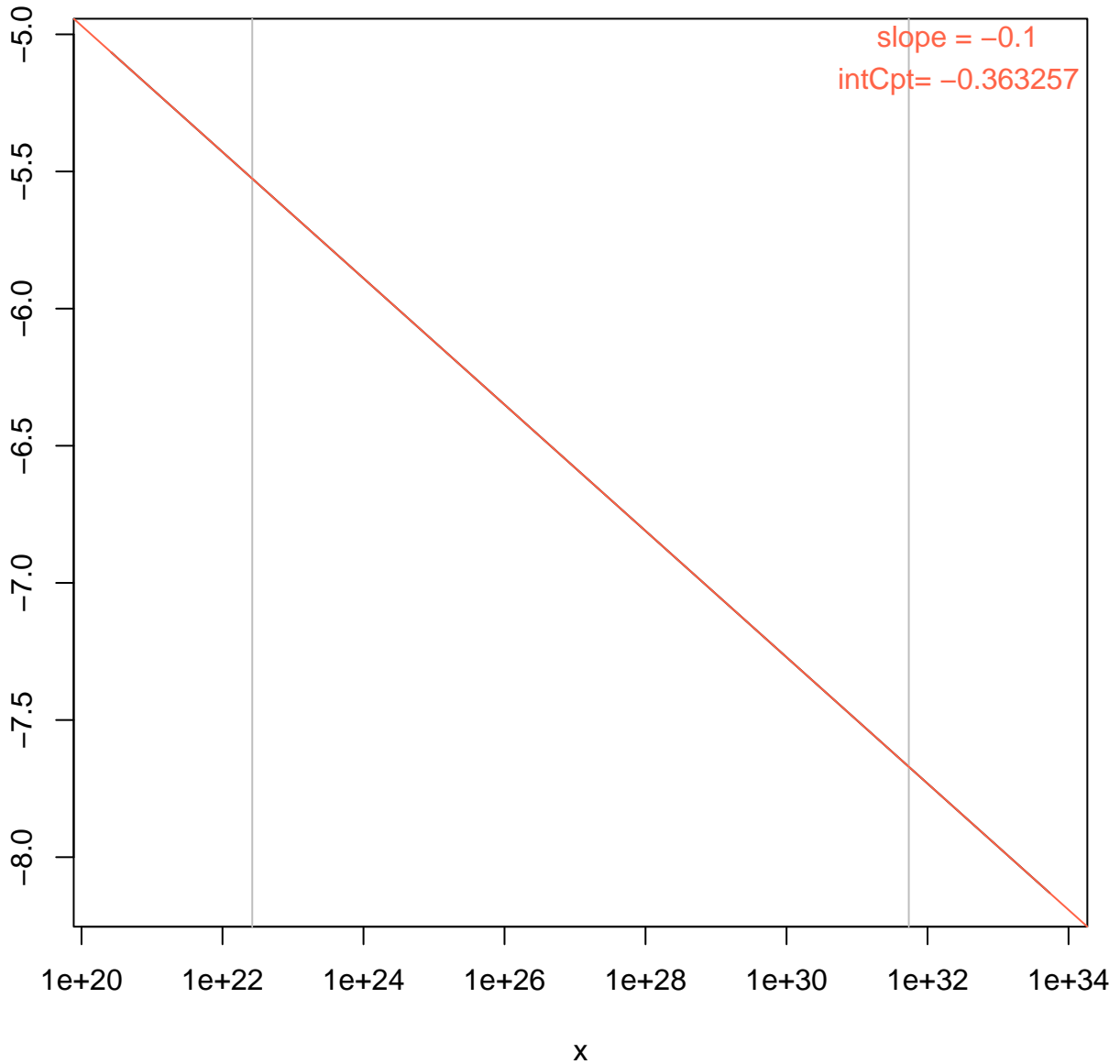


**pt(exp(.), df=0.1, ncp=10, lower.tail=FALSE, log.p=TRUE)**

Search for [x0, x1] s.t. pt(\*, log=TRUE) is \*linear\* in it; starting @ [51.6295, 74.6553]



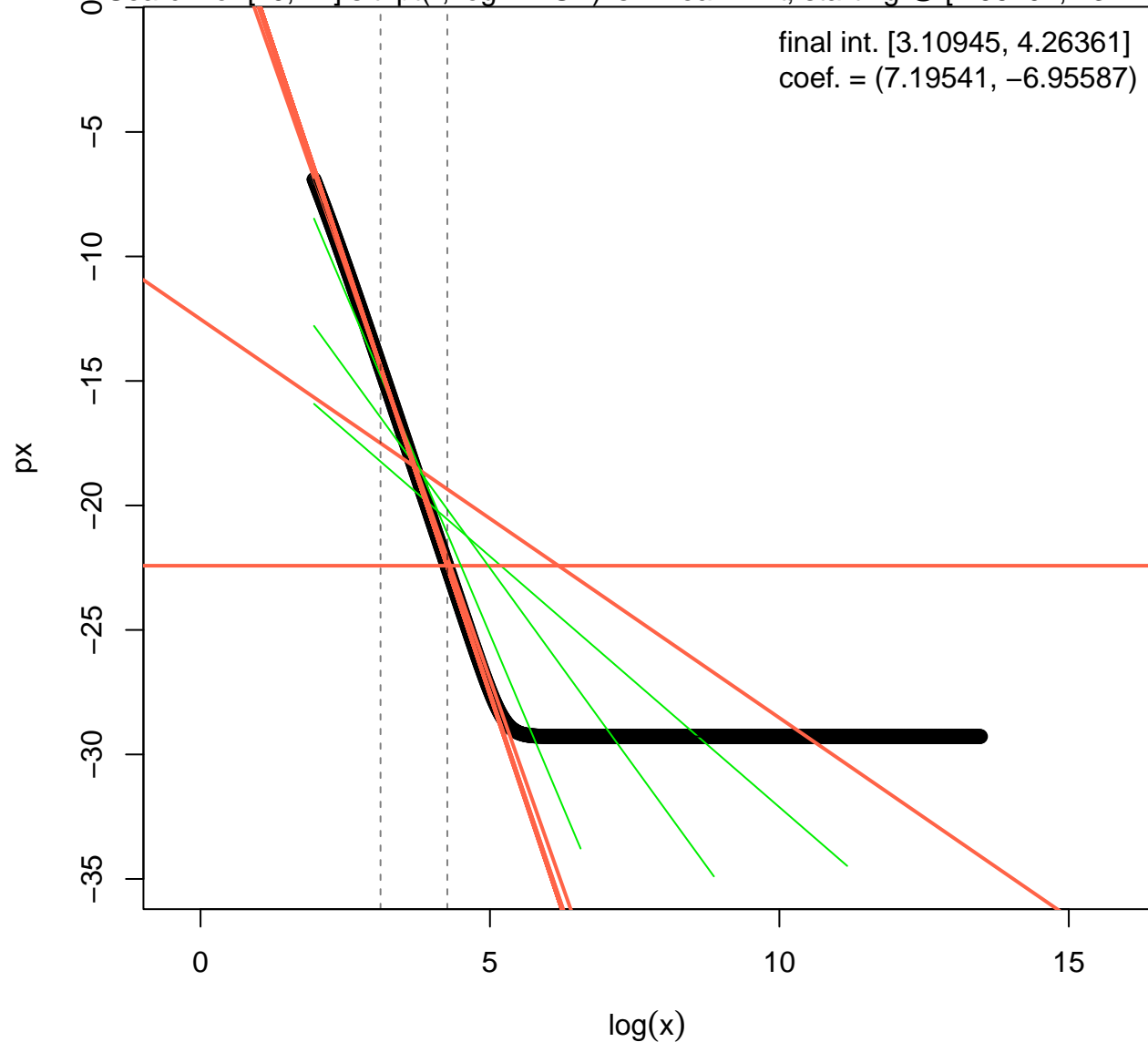
**pt(x, df=0.1, ncp=10, log=TRUE, lower.tail=FALSE)**



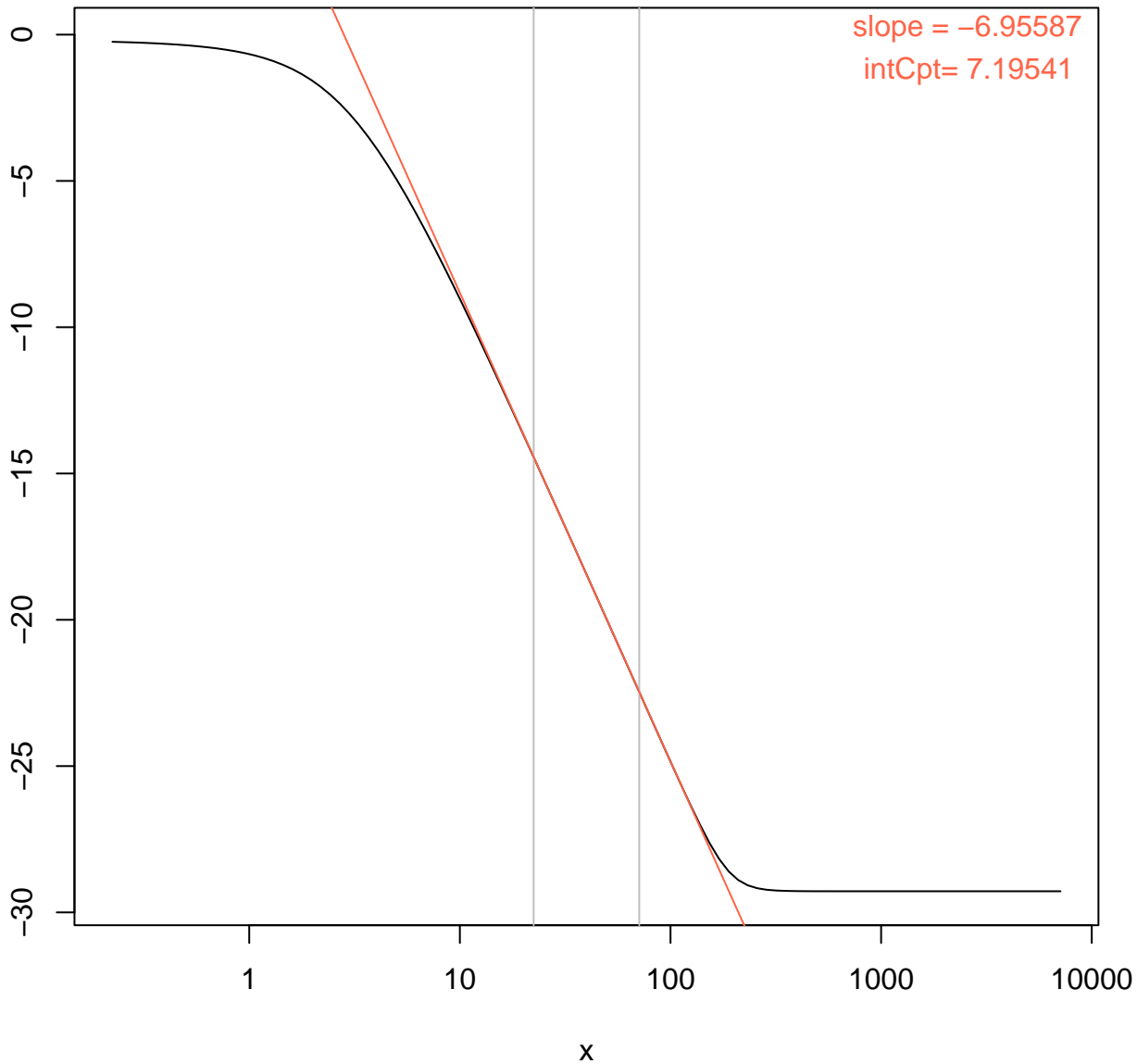
**pt(exp(.), df=7, ncp=1, lower.tail=FALSE, log.p=TRUE)**

Search for [x0, x1] s.t. pt(\*, log=TRUE) is \*linear\* in it; starting @ [1.96102, 13.4739]

final int. [3.10945, 4.26361]  
coef. = (7.19541, -6.95587)



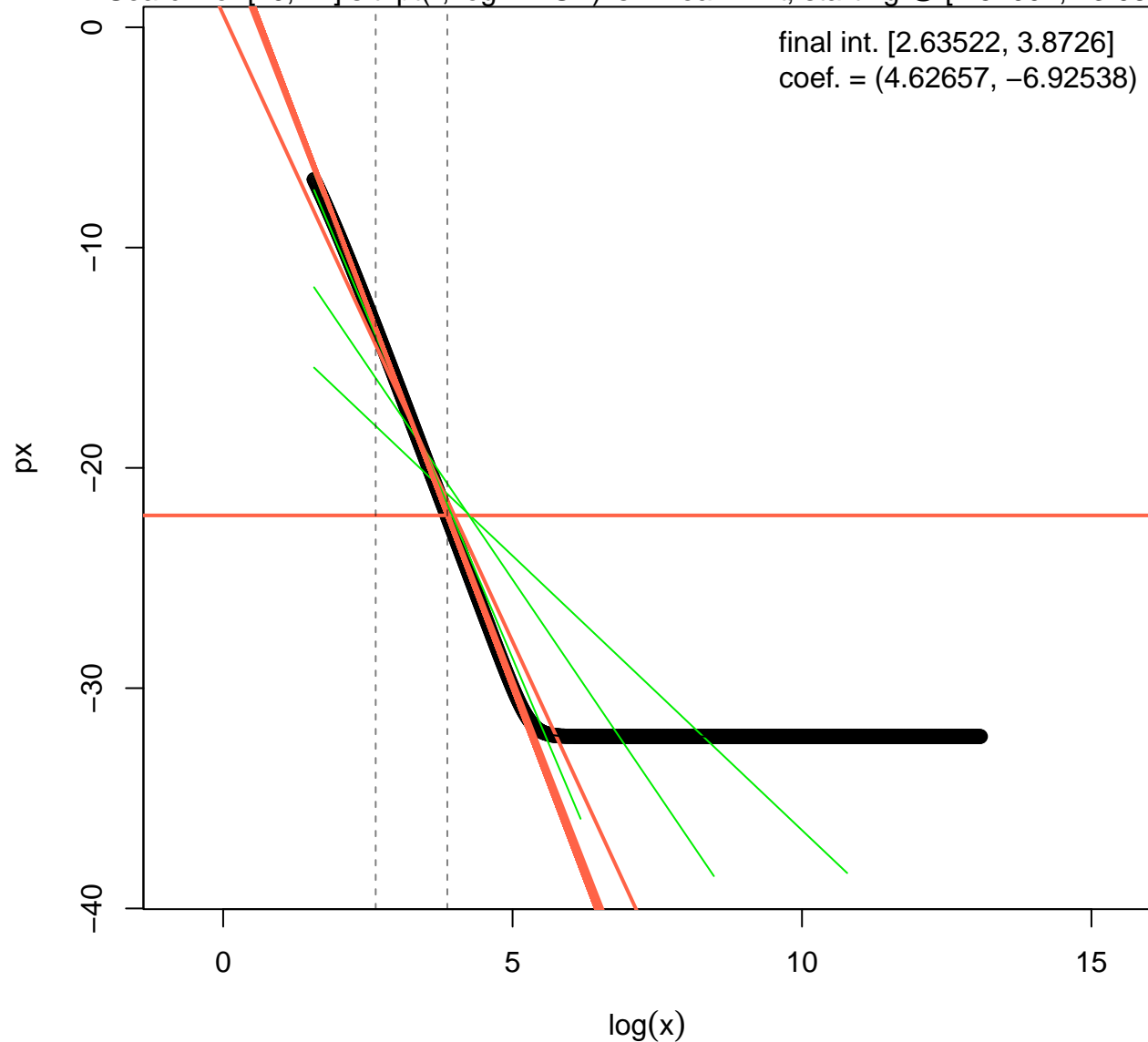
**pt(x, df=7, ncp=1, log=TRUE, lower.tail=FALSE)**



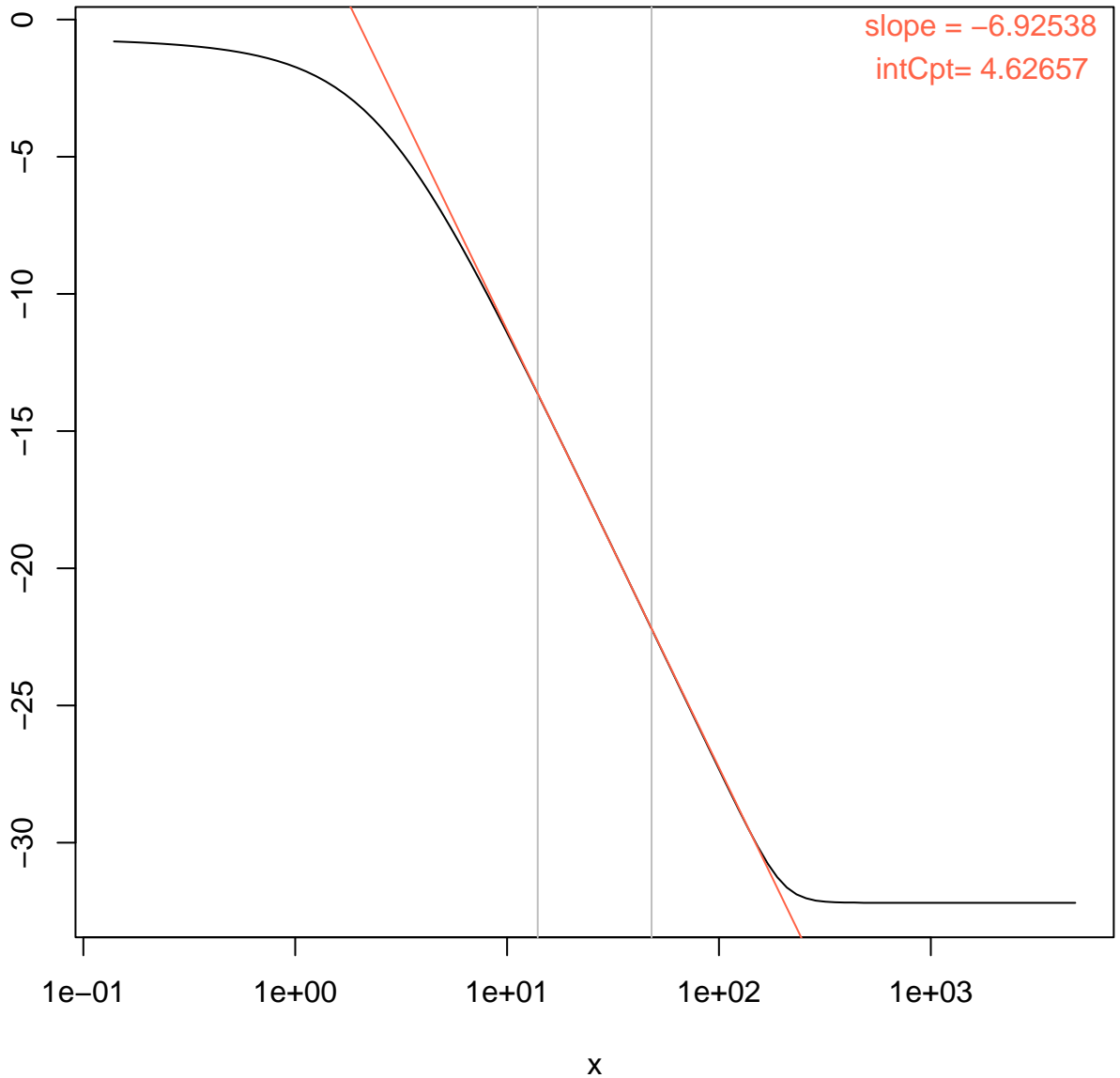
**pt(exp(.), df=7, ncp=0.01, lower.tail=FALSE, log.p=TRUE)**

Search for [x0, x1] s.t. pt(\*, log=TRUE) is \*linear\* in it; starting @ [1.57002, 13.0829]

final int. [2.63522, 3.8726]  
coef. = (4.62657, -6.92538)



**pt(x, df=7, ncp=0.01, log=TRUE, lower.tail=FALSE)**

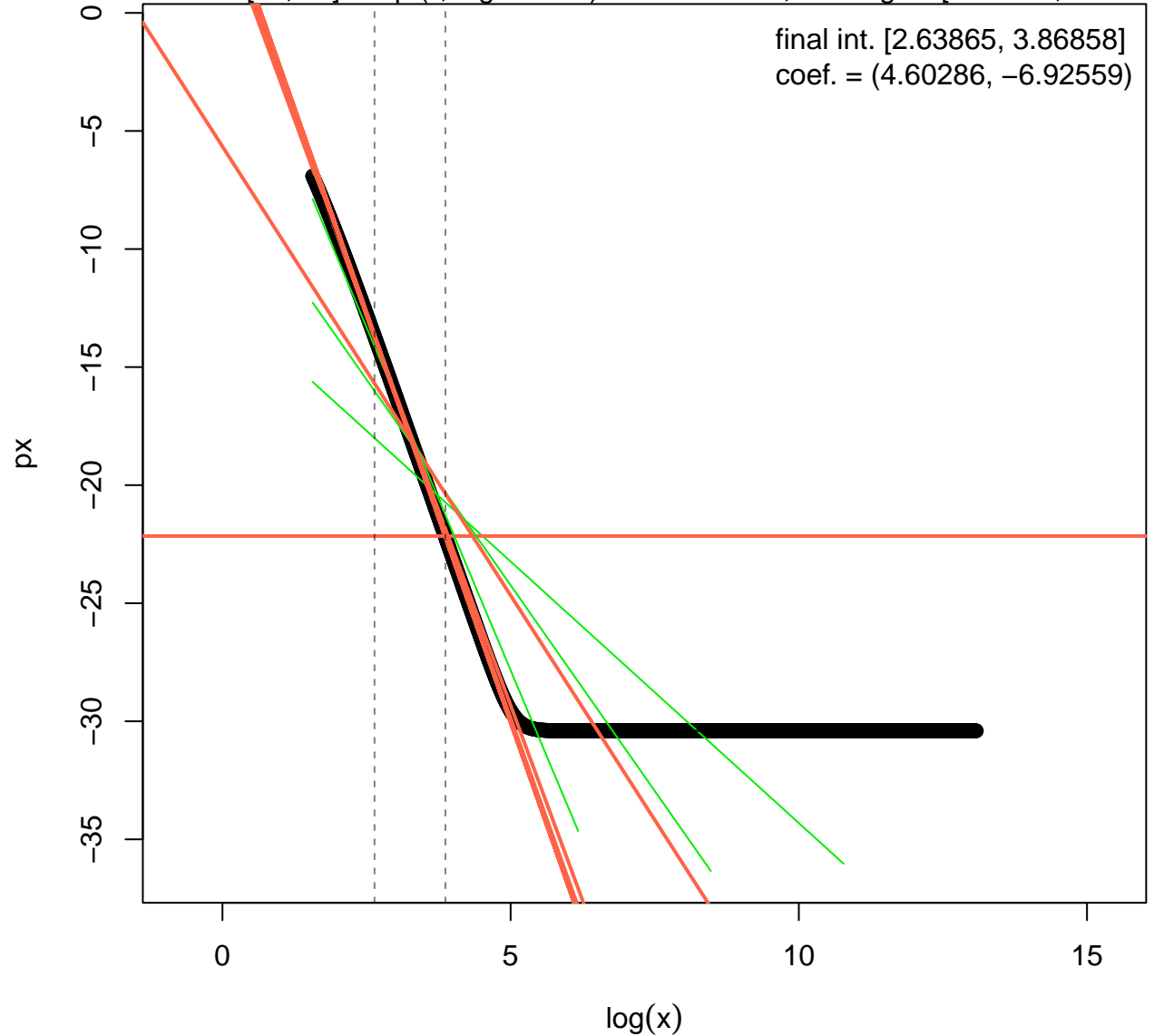




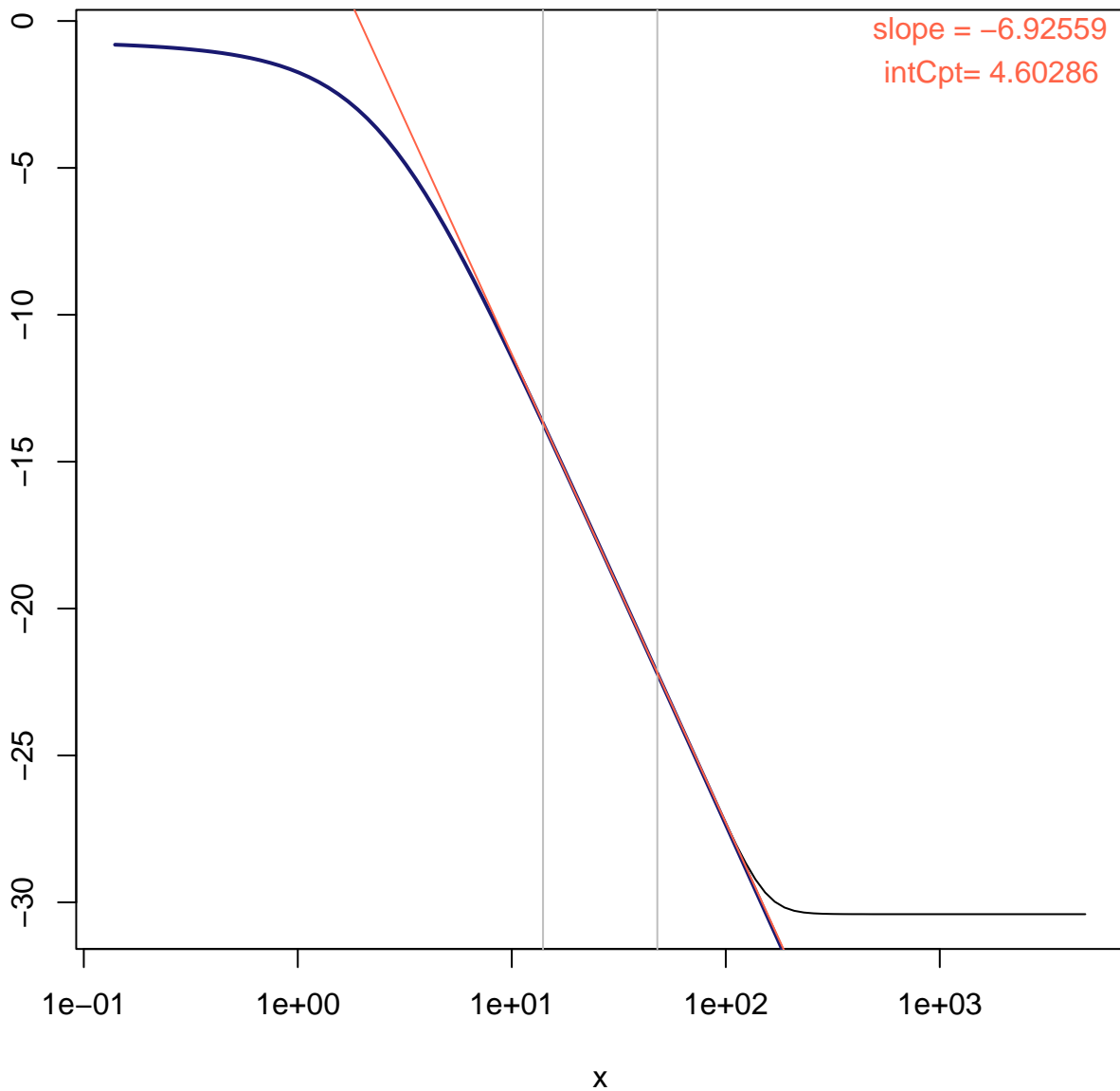
**pt(exp(.), df=7, ncp=0.001, lower.tail=FALSE, log.p=TRUE)**

Search for  $[x_0, x_1]$  s.t.  $pt(*, \log=TRUE)$  is \*linear\* in it; starting @  $[1.56599, 13.0789]$

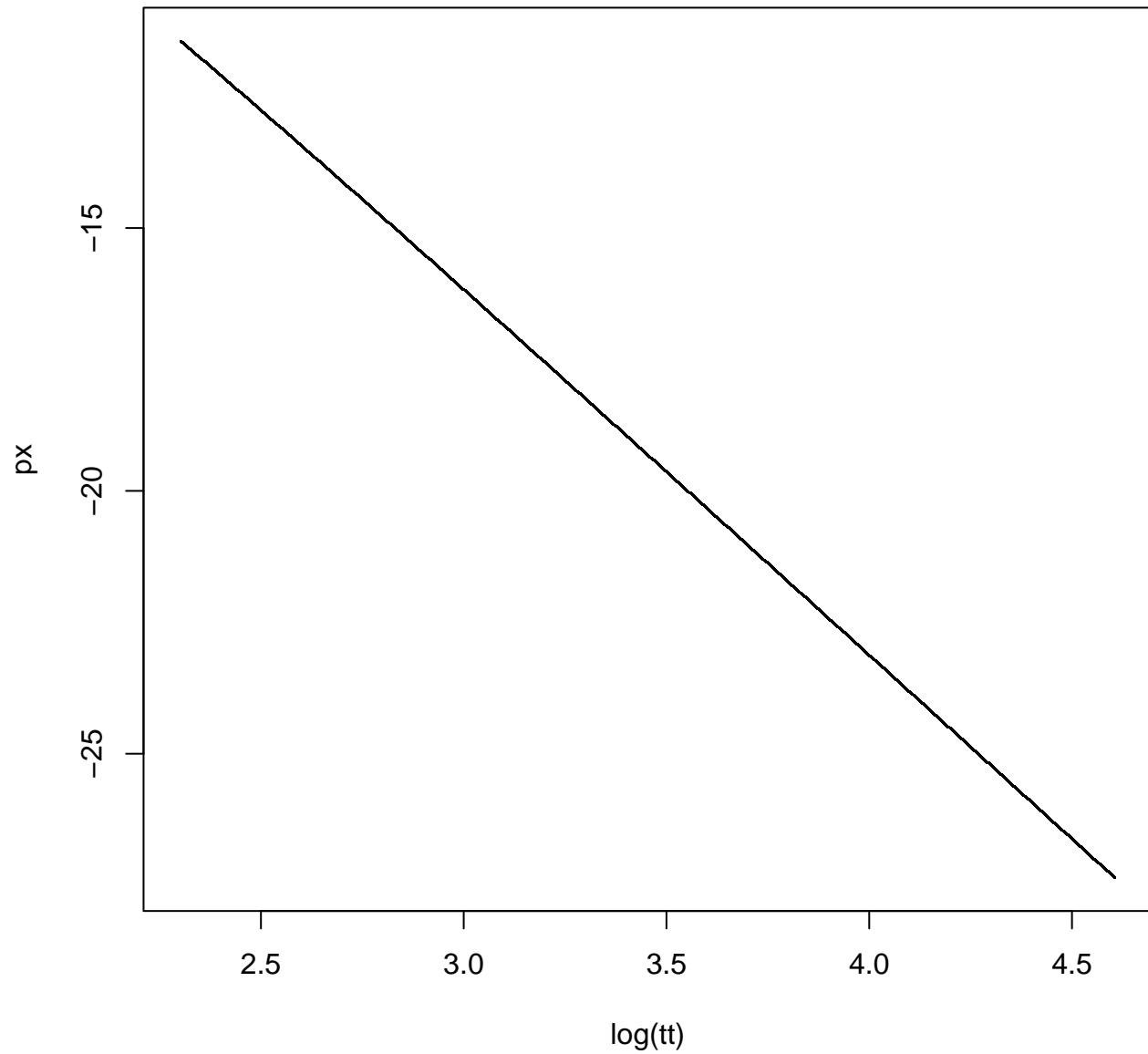
final int.  $[2.63865, 3.86858]$   
coef. =  $(4.60286, -6.92559)$



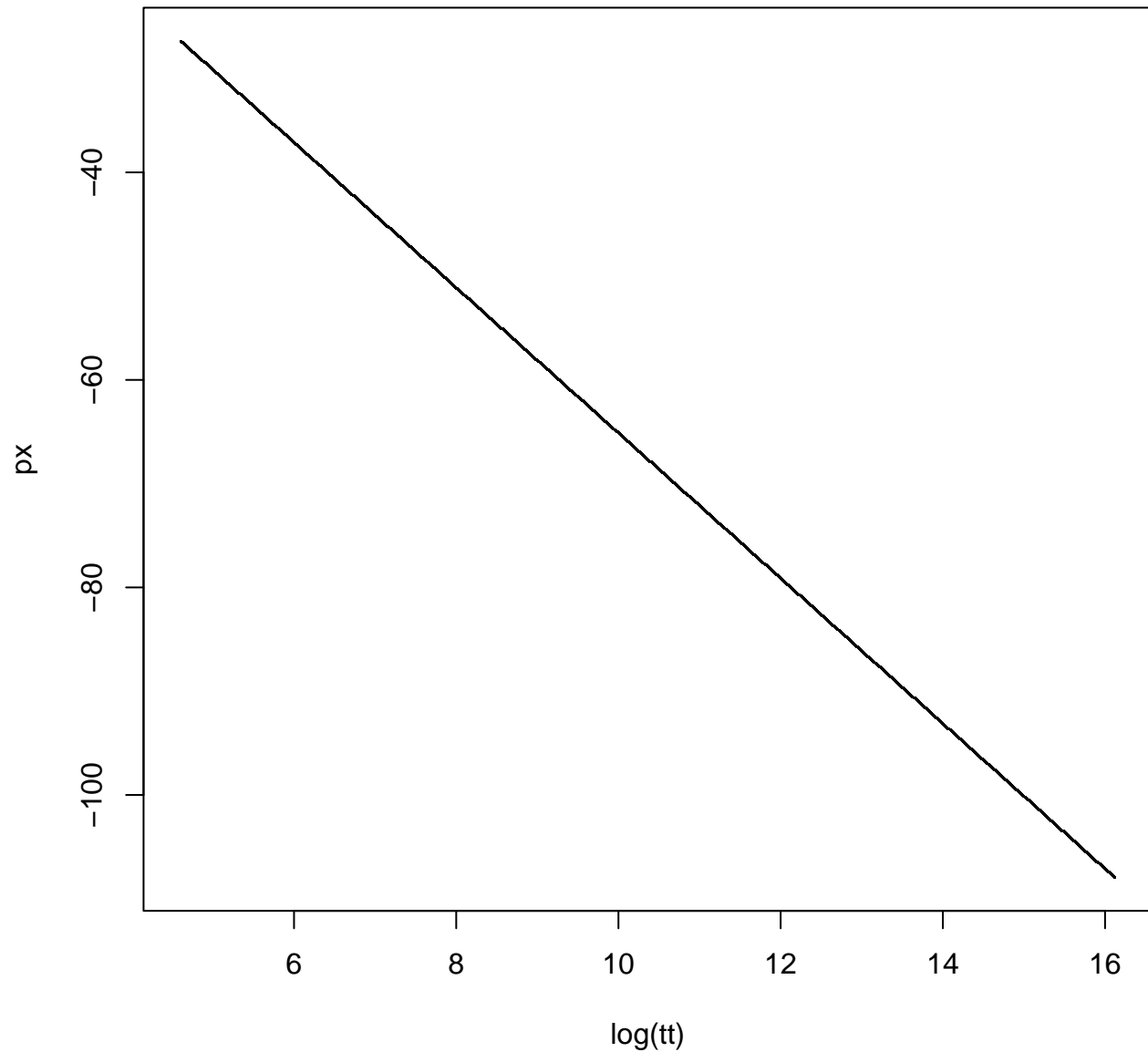
**pt(x, df=7, ncp=0.001, log=TRUE, lower.tail=FALSE)**



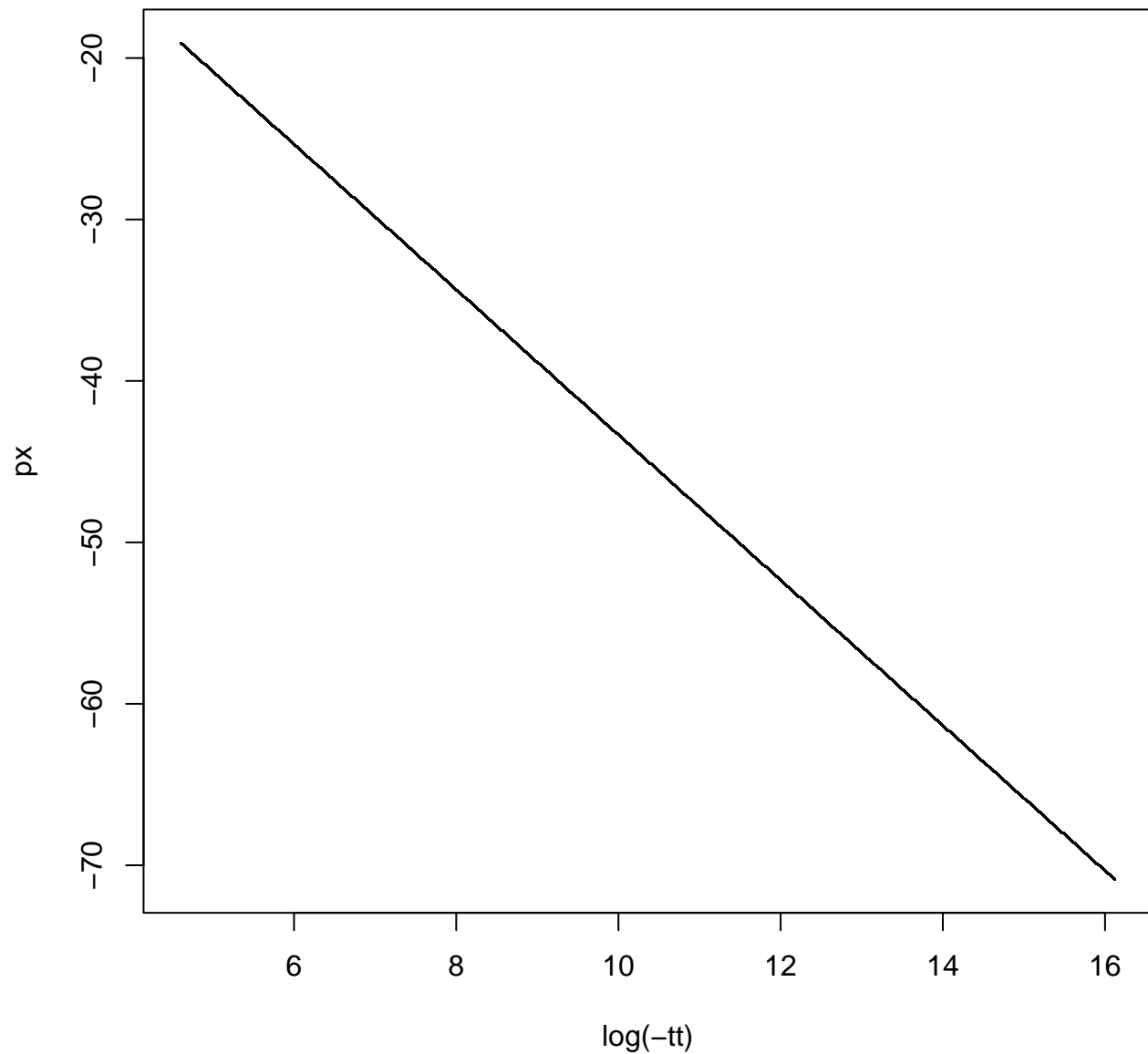
`pt(tt, df=7, log=TRUE, lower.t=F)`



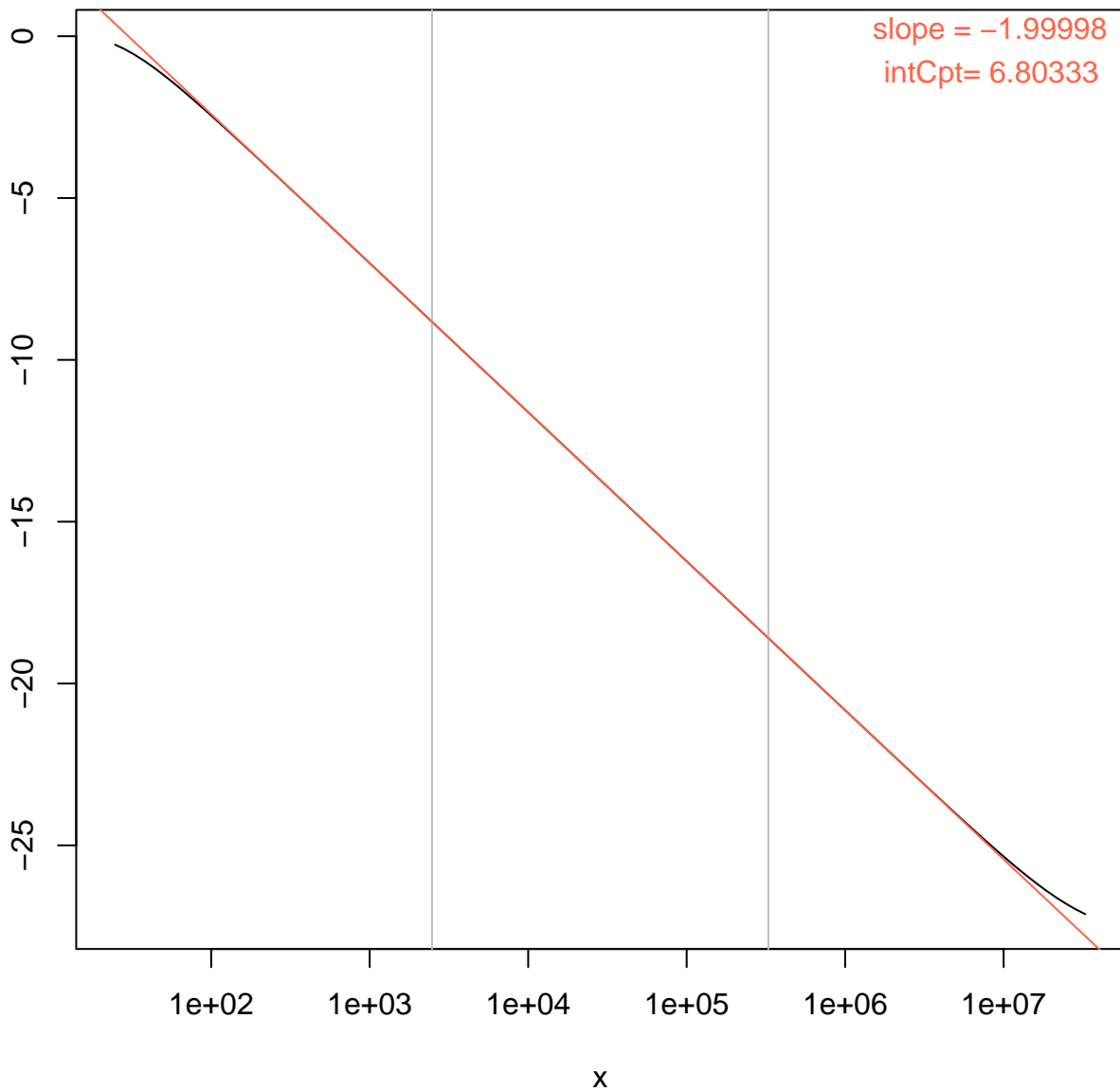
`pt(tt, df=7, log=TRUE, lower.t=F) -- larger range(tt)`



`pt(tt, df=7, log=TRUE, lower.tail=TRUE)`

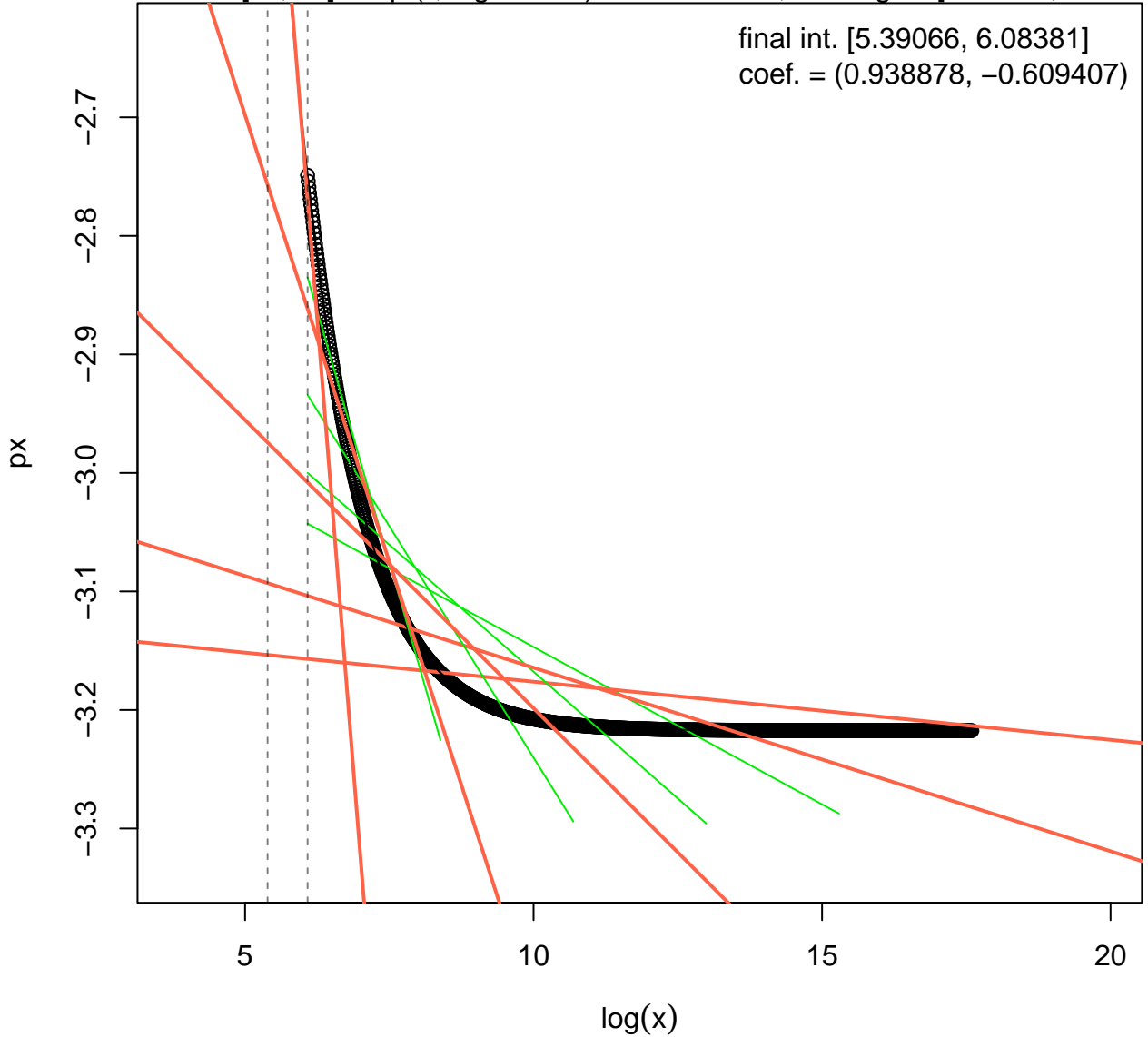


**pt(x, df=2, ncp=30, log=TRUE, lower.tail=FALSE)**

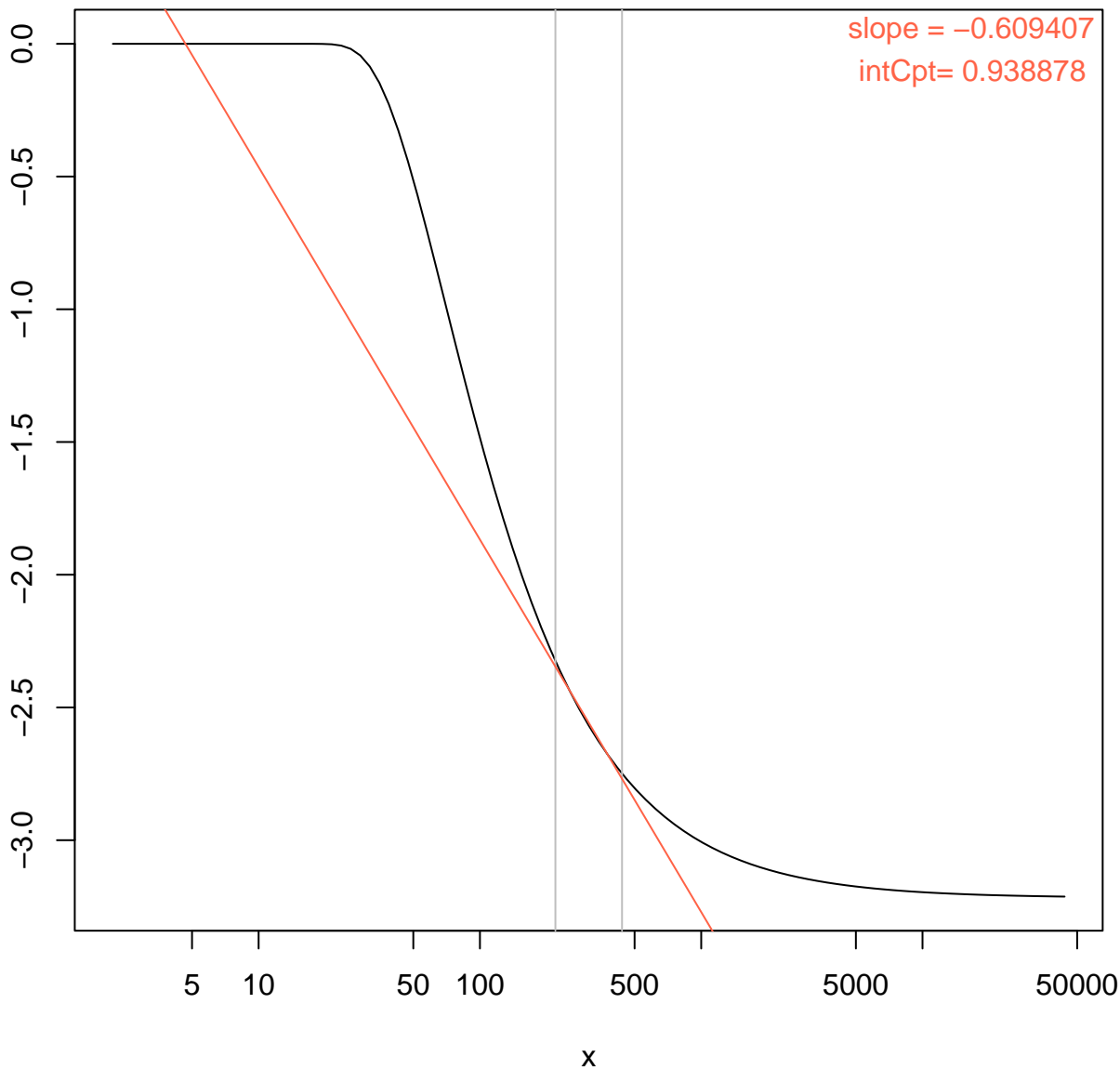


**pt(exp(.), df=2, ncp=50, lower.tail=FALSE, log.p=TRUE)**

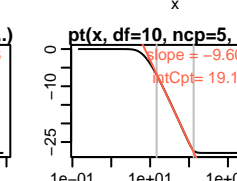
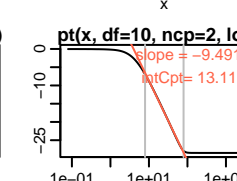
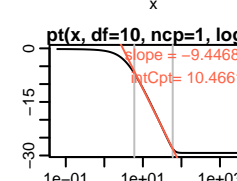
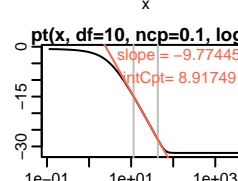
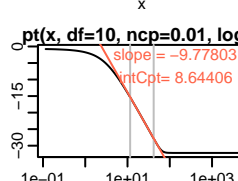
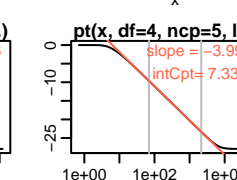
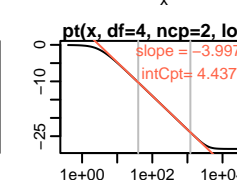
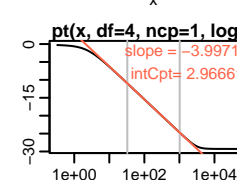
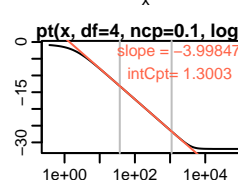
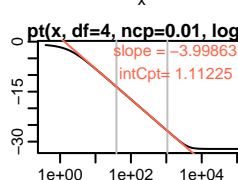
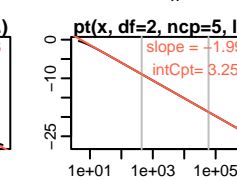
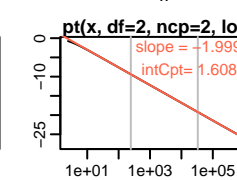
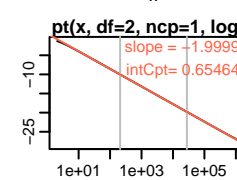
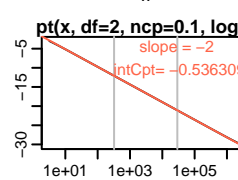
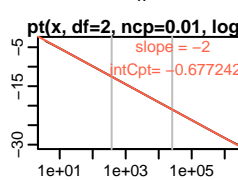
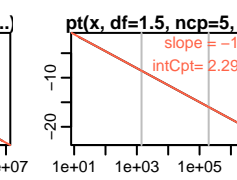
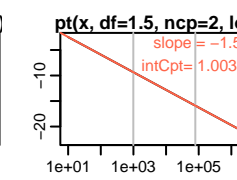
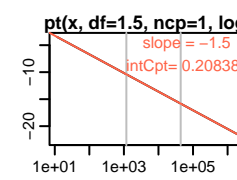
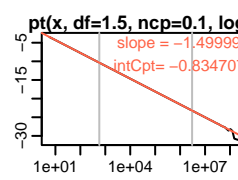
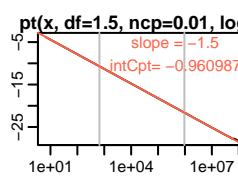
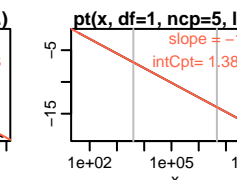
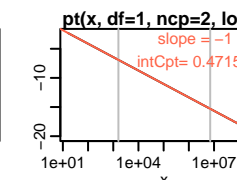
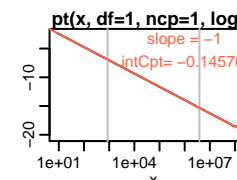
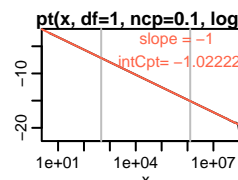
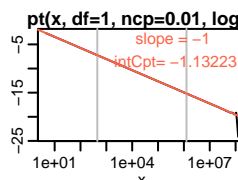
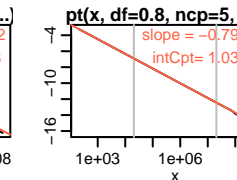
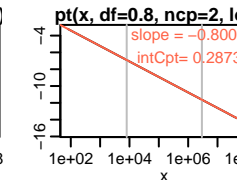
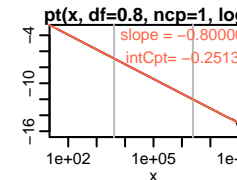
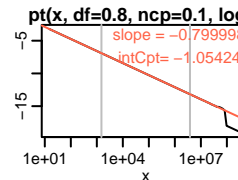
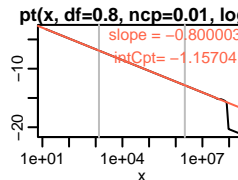
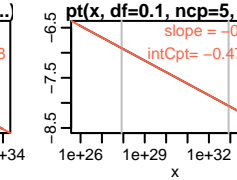
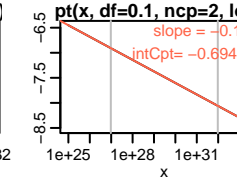
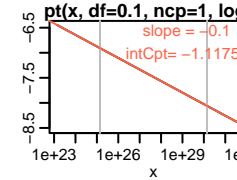
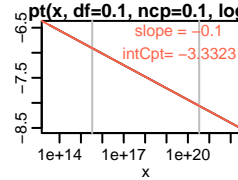
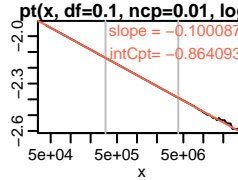
Search for  $[x_0, x_1]$  s.t.  $pt(*, \log=TRUE)$  is \*linear\* in it; starting @  $[6.08381, 17.5967]$



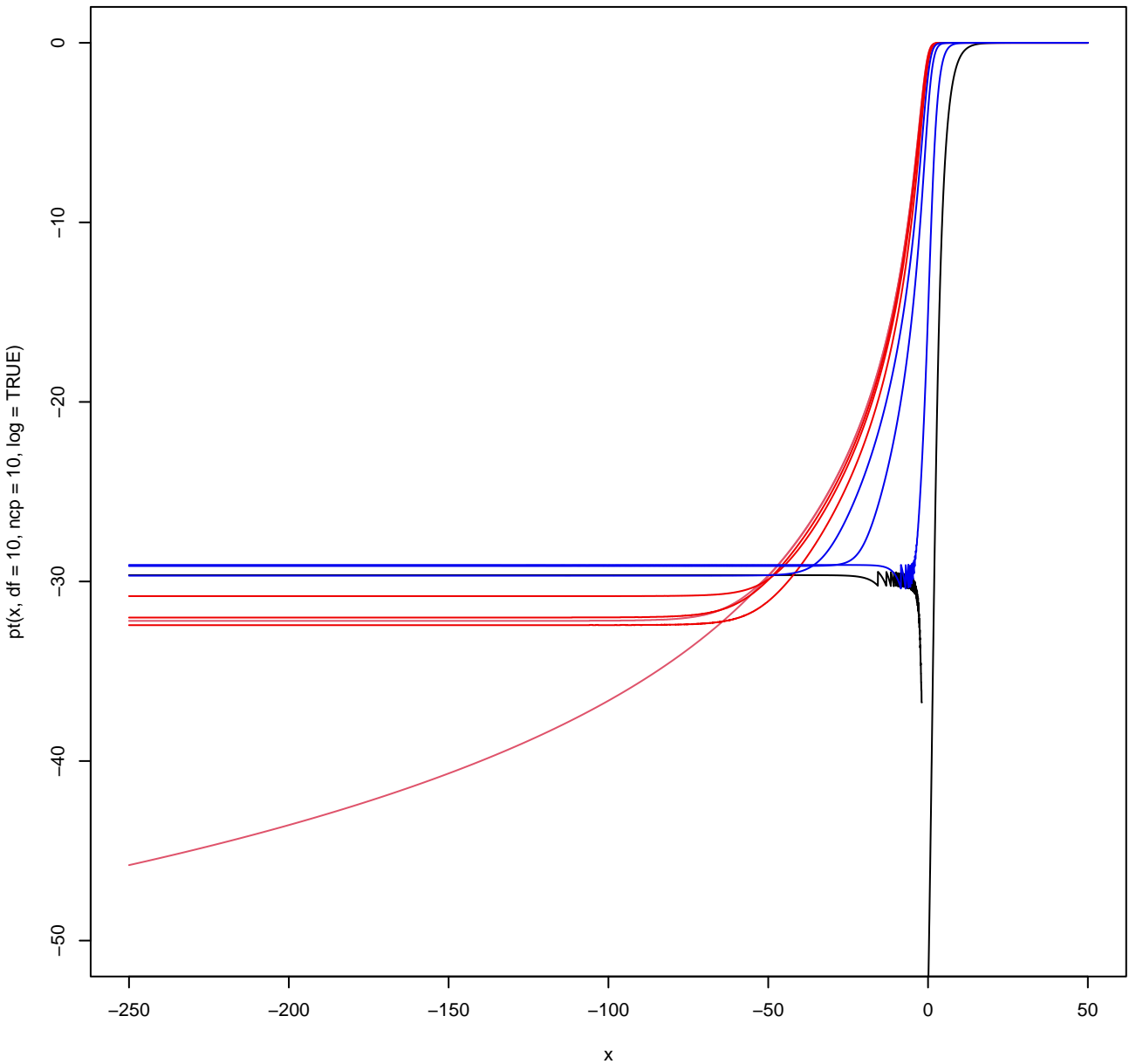
**pt(x, df=2, ncp=50, log=TRUE, lower.tail=FALSE)**







pt(x, df=10, ncp= \*, log=TRUE), -250,50, ..) for various ncp



pt(x, df = 5, ncp = 100, log = TRUE)

