46. F(x)=1-e-x (1-e-x)(1+ e-x Eexp. Erd) (1-e-x) (1+ Erd) - e Eexp = 1-e-XA 1-ex+ End (+1-ex)-ex Eexp=1-ex e-x- Ed (1-e-x) + e x Exp = e-xA -In (e-x-(1-e-x) Erd + e-xexp)=XA (e-x-9rd - e-xerd + e-xexp)=XA -In (e-x (1-Erd - xexp-Erd ex))=XA X-In (1+(1+ex) Erd - Eexp) - XA -In (1-(1+cx) Erd + Eexp) = XA -X |XA-X| =-(1+ex) End + Exp = -exe C. (Plots included in parts a and b) As x gets smaller, the relative size of & becomes larger and more significant, when X is large, E is insignificant, As X decreases, E can become almost equalin



