1. RESOLVER LAS SIGUIENTES ECUACIONES LOGARÍTMICAS

a) $2\log x-\log(x+6)=3\log 2$	*(Soluc: x=12)*
b) $4\log_2(x^2+1)=\log_2 625$	*(Soluc: x=±2)*
c) $\log(x^2+1)-\log(x^2-1)=\log\frac{13}{12}$	*(Soluc: x=±5)*
d) $\log(x-1)=2$	*(Soluc: x=101)*
e) $\ln(x+2)=1$	*(Soluc: x=e-2)*
f) $\ln(x-3)+\ln(x+1)=\ln 3+\ln(x-1)$	*(Soluc: x=5)*
g) $2\log^2 x+7\log x-9=0$	$(Soluc: x_1=10;\ x_2=\sqrt{10}/10^5)$
h) $2\log x^2+7\log x-9=0$	$(Soluc: x=\sqrt[11]{10^9})$
i) $2\ln(x-3)=\ln x-\ln 4$	*(Soluc: x=4)*
j) $\log(x+3)-\log(x-6)=1$	*(Soluc: x=7)*
k) $\log 10^{x-1}=2$	*(Soluc: x=3)*
l) $\log(x+9)=2+\log x$	*(Soluc: x=1/11)*
m) $\log(x+1)+\log(x-1)=1/100$	$(Soluc: x=\sqrt{1+\sqrt[100]{10}})$
n) $\log\sqrt{3x+5}+\log\sqrt{x}=1$	*(Soluc: x=5)*
o) $\log(x^2-7x+110)=2$	*(Soluc: x_1=2; x_2=5)*
p) $2\ln x+3\ln(x+1)=3\ln 2$	*(Soluc: x=1)*
q) $\log(x^2+3x+36)=1+\log(x+3)$	*(Soluc: x_1=1; x_2=6)*
r) $\ln x+\ln 2x+\ln 4x=3$	*(Soluc: x=e/2)*
s) $4\log x-2\log(x-1)=2\log 4$	*(Soluc: x=2)*
t) $\ln(x-1)+\ln(x+6)=\ln(3x+2)$	*(Soluc: x=2)*
u) $2\log x+\log(x-1)=2$	*(Soluc: x=5)*
v) $2\log(x+9)-\log x=2$	*(Soluc: x≅1,81)*
w) $\log(2x+6)-1=2\log(x-1)$	*(Soluc: x_1=2; x_2=1/5)*
x) $\log(x+11)-2\log x=1$	*(Soluc: x=11/10)*
y) $\log(6x-1)-\log(x+4)=\log x$	*(Soluc: x=1)*
z) $\log x^2+\log x^3=5$	*(Soluc: x=10)*