Calcul de la fonction y'(x)

Si x > 1 : W'(x) = W(x)/(x*(1+W(x))

y(x) = ln(x)/W(ln(x)) = (ln(x))*(1/W(ln(x)))

y'(x) = (ln(x))'*(1/W(ln(x)))+ln(x)*(1/W(ln(x)))'

y'(x) = (1/x)*(1/W(ln(x)))+ln(x)*(-1/((W(ln(x))^2)*(W(ln(x))')

y'(x) = 1/(x*W(ln(x)))-(ln(x)/((W(ln(x))^2)*(W(ln(x))')

y'(x) = 1/(x*W(ln(x)))-(ln(x)/((W(ln(x))^2)*(W(ln(x))/(ln(x)*(1+W(ln(x)))*(ln(x))')

y'(x) = 1/(x*W(ln(x)))-(ln(x)/(W(ln(x))/((ln(x)*(1+W(ln(x)))*(ln(x))')

y'(x) = 1/(x*W(ln(x)))-1/(W(ln(x))*(1+W(ln(x)))*(ln(x))')

y'(x) = 1/(x*W(ln(x)))-1/(x*W(ln(x))*(1+W(ln(x))))

y'(x) = W(ln(x))/(x*W(ln(x))*(1+W(ln(x))))

y'(x) = 1/(x*(1+W(ln(x))))