

# Problem for 1998 October

Communicated by Dan Jurca

For  $n=0,1,2,\dots$  let  $f_n(x)=x^{n-1}e^{1/x}$ .

Find the  $n$ -th derivative,  $f_n^{(n)}$ , of  $f_n$ , and prove that your answer is correct.