$L_0(x) = 1$

$L_1(x) = 1 - x$

$L_2(x) = x^2 - 4x + 2$

SHOW

$$\int_0^\infty \{L_i\}\, e^{-x}\, dx = 0$$

$$\int_0^\infty e^{-x}\, dx = \lim_{b\to\infty} \int_0^b e^{-x}\, dx$$

$v = -x$, $dv = -dx$

$$= -\int_\alpha^\beta e^v\, dv = -e^v\Big|_\alpha^\beta = -e^{-x}\Big|_0^b = \cdots$$

$$\cdots = -e^{-b} - -e^0 = -e^{-b} + 1 \longrightarrow \cdots$$

$$\cdots \longrightarrow \lim_{b\to\infty} \left[-e^{-b} + 1\right]$$

12:00

9:54

WATCH 4 CLAIMS (MED)