## PROOF OF FORMULA 4.236.2

$$\int_0^1 \left[ \frac{1}{1-x} + \frac{x \ln x}{(1-x)^2} \right] \, dx = \frac{\pi^2}{6} - 1$$

This is the special case p = 1 of entry **4.236.1** using the value  $\psi'(1) = \frac{\pi^2}{6}$ .