PROOF OF FORMULA 3.471.1

$$\int_0^u e^{-b/x} \frac{dx}{x^2} = \frac{1}{b} e^{-b/u}$$

Let t = -b/x. Then

$$\int_{0}^{u} e^{-b/x} \frac{dx}{x^{2}} = \frac{1}{b} \int_{-\infty}^{-b/u} e^{t} dt.$$

The last integral is elementary and it gives the result.