## FORMULA 4.275.1

$$\int_{0}^{1} \left[ \left( \ln \frac{1}{x} \right)^{q-1} - x^{p-1} (1-x)^{q-1} \right] dx = \frac{\Gamma(q)}{\Gamma(p-q)} \left[ \Gamma(p+q) - \Gamma(p) \right]$$