

FORMULA 4.267.12

$$\int_0^1 \frac{x^p - x^q}{(1 - ax)^n} \frac{dx}{x \ln x} = \ln \frac{p}{q} + \sum_{k=1}^{\infty} \binom{n+k-1}{k} a^k \ln \frac{p+k}{q+k}$$