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· SUPPOSE 5, of DERIVABLE AND CONTINUES IN [OI, 6] WITH

So

$$\int f(x) \, g'(x) \, dx = f(x) \, g(x) - \int f'(x) \, g(x) \, dx$$

$$\int_{0}^{\infty} g(x) g'(x) dx = \left[ S(x) g(x) \right]_{0}^{\infty} - \int_{0}^{\infty} S'(x) g'(x) dx$$