



14. $y(x) - \int_a^x g(x)h(t)y(t) dt = f(x).$

Solution:

$$y(x) = f(x) + \int_a^x R(x, t)f(t) dt, \quad \text{where } R(x, t) = g(x)h(t) \exp \left[\int_t^x g(s)h(s) ds \right].$$

Reference

Polyanin, A. D. and Manzhirov, A. V., *Handbook of Integral Equations*, CRC Press, Boca Raton, 1998.