



1.  $y(x) - \lambda \int_a^x y(t) dt = f(x).$

Solution:  $y(x) = f(x) + \lambda \int_a^x e^{\lambda(x-t)} f(t) dt.$

### Reference

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