

8.
$$y(x) + A \int_a^x e^{\lambda(x-t)} y(t) dt = f(x)$$
.

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

Reference

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

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