

10.
$$\int_{a}^{x} \left[e^{\lambda(x-t)} - 1 \right] y(t) dt = f(x), \qquad f(a) = f'_{x}(a) = 0.$$

Solution: $y(x) = \frac{1}{\lambda} f_{xx}''(x) - f_x'(x)$.

Reference

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

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