



10.
$$\int_a^x [e^{\lambda(x-t)} - \mathbf{1}] y(t) dt = f(x), \quad f(a) = f'_x(a) = \mathbf{0}.$$

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.