8. $\displaystyle\int_a^x e^{\lambda(x-t)} y(t)\, dt = f(x), \qquad f(a) = 0.$

Solution: $y(x) = f'_x(x) - \lambda f(x).$

Reference

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