

1. 
$$y(x+a) - by^{\lambda}(x) = f(x)$$
.

This is a special case of equation 1, Subsection 2.3.

## Reference

**Polyanin, A. D. and Manzhirov, A. V.,** *Handbook of Integral Equations: Exact Solutions (Supplement. Some Functional Equations)* [in Russian], Faktorial, Moscow, 1998.

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http://eqworld.ipmnet.ru/en/solutions/fe/fe2201.pdf