

14. 
$$y(x)y\left(\frac{a-x}{1+bx}\right)=A^2$$
.

Solution:

$$y(x) = \pm A \exp\left[\Phi\left(x, \frac{a-x}{1+bx}\right)\right],$$

where  $\Phi(x,z) = -\Phi(z,x)$  is any antisymmetric function of two arguments.

## 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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