



**20.  $y(x) - y(a/x) = 0.$**

Solution:

$$y(x) = \Phi(x, a/x),$$

where  $\Phi(x, z) = \Phi(z, x)$  is any symmetric function with 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.