



18. $y(x) + g(x)y(a - x) = f(x).$

Solution:

$$y(x) = \frac{f(x) - g(x)f(a - x)}{1 - g(x)g(a - x)}.$$

References

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