



33.  $y(x) + cy \left( \frac{bx + \beta}{a - x} \right) = f(x), \quad \beta = a^2 + ab + b^2.$

This is a special case of equation 11 in Subsection 1.2.

### Reference

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