



**8.  $F(x, y(x), y(x^a)) = 0.$**

The transformation  $\xi = \ln x$ ,  $u(\xi) = y(x)$  leads to the equation

$$F(e^\xi, u(\xi), u(a\xi)) = 0.$$

See equation 3 in the current subsection.

### Reference

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