

## 19. $y(\sin x)y(\cos x) = a^2$ .

Solution in implicit form:

$$y(\sin x) = \pm a \exp[\Phi(\sin x, \cos x)],$$

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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