

28.  $y''_{xx} = f(y)y'_x + g(x)$ .

Integrating yields a first-order equation:

$$y'_x = \int f(y) \, dy + \int g(x) \, dx + C.$$

## Reference

**Polyanin, A. D. and Zaitsev, V. F.,** *Handbook of Exact Solutions for Ordinary Differential Equations, 2nd Edition,* Chapman & Hall/CRC, Boca Raton, 2003.

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