



29. $xy''_{xx} + (n + 1)y'_x = x^{n-1}f(yx^n).$

The transformation $\xi = x^n$, $w = yx^n$ leads to an autonomous equation of the form 3.1: $n^2w''_{\xi\xi} = f(w).$

Reference

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