

33. $[x^n f(y) + xg(y)]y'_x = h(y)$.

This is a Bernoulli equation with respect to x = x(y) (see equation 1.4).

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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http://eqworld.ipmnet.ru/en/solutions/ode/ode0133.pdf