



4. $y''_{xx} = f(ay + bx + c).$

The substitution $w = ay + bx + c$ leads to an autonomous equation of the form 3.1: $w''_{xx} = af(w).$

Reference

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