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is a function of x alone, the differential equation has μ as an integrating factor. After multiplying through by $\mu = x^{-2}$, the differential equation describing the desired family of orthogonal trajectories becomes $M y + N x = 0$ which is now exact (because $M_y = 2 x^{-2} y = N_x$). Since $\mu = x^{-2}$ and $\mu' = -2 x^{-3}$, the solution of the differential equation is

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