



8.
$$\frac{\partial w}{\partial t} = a \frac{\partial}{\partial x} \left(e^{\lambda w} \frac{\partial w}{\partial x} \right) + b + c_1 e^{\beta w} + c_2 e^{\gamma w}.$$

Reference

Polyanin, A. D. and Zaitsev, V. F., *Handbook of Nonlinear Partial Differential Equations* (Section 1.2.2), Chapman & Hall/CRC, Boca Raton, 2004.