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$$\begin{aligned} & \left(\left(U_{yy}(t,s,y) - U_t(t,s,y) \right) y - 2sU_{sy}(t,s,y) \right) y \\ & \text{Optimal System and Invariant Solutions on} \\ & \quad + (s^2 + 1)U_{ss}(t,s,y) + 2sU_s = 0 \end{aligned}$$

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