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Conversely: Let Δ be conjugate with X. According to Lemma 4 there is a map $\bar{\Gamma}$ which is conjugate with X. The map $\bar{\Gamma}$ determines vector fields $X_2, \ldots, X_{h+1}$ such that $[X, X_\alpha] = 0$, on account of Lemma 1. Let $Y = \mu^\alpha X_\alpha$, the $[X, Y]$ is of the form $\nu^\alpha X_\alpha$, as well, and hence $[X, Y]$ is a subfield of Δ, q.e.d.

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Author's address: 960 53 Zvolen, Štúrova 4 (Vysoká škola lesnícka a drevárska).