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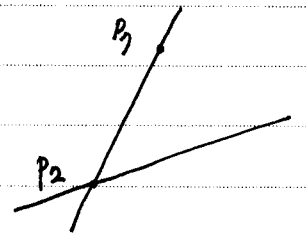
⌜ The cubic $L_{27} + L_{34} + L_{56}$ is singular at P_2. ⇒



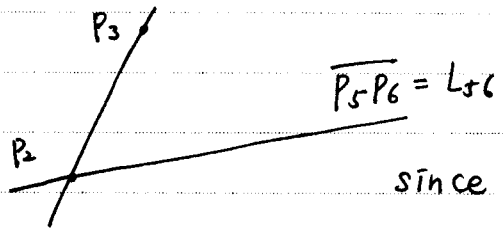
⌟

In this case, take L' any line through P_7 missing all the other points P_i; the cubic

$$L_{23} + L_{56} + L'$$

contains P_1; thus P_2 lies on L_{56}.

⌜ Since L_{34} contains P_2, $L_{23} \ni P_4$.
⇒ $L_{23} + L_{56} + L' \ni P_2, P_3, P_4, P_5, P_6, P_7$. ⇒ It contains P_1. Again this cubic is singular at P_2.



⌟

But then since

$$L_{27} + L_{35} + L_{46}$$

contains P_1, either L_{35} or L_{46} must pass through P_2, and in either case it follows that P_2, P_3, P_4, P_5, and P_6 are collinear.