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Criteria for the P_n–simplicity of a functional

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Tiberiu Popoviciu introduced the notion of a P_n- *simple functional* $A : C^k[a, b] \to \mathbf{R}$. He gave also practical criteria for the simplicity in the case $0 \leq k \leq n - 1$.

Similar results have been obtained in [1] and [2] when $0 \leq k \leq n$. The problem is *to find practical criteria for the* P_n*-simplicity in the case when* $k > n$.

References

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[2] I. Raşa, Funcţionale de formă simplă în sensul lui Tiberiu Popoviciu, Teză de doctorat, Cluj, 1982.