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Title: Skew derivations with annihilating Engel conditions

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Let R be a noncommutative prime ring and $a \in R$. Suppose that δ is a σ -derivation of R such that $a[\delta(x), x]_k = 0$ for all $x \in R$, where k is a fixed positive integer. Then $a = 0$ or $\delta = 0$ except when $R = M_2(GF(2))$.

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