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On the maximum orders of an induced forest, an induced tree, and a stable set

Let G be a connected graph, n the order of G , and f (resp. t) the maximum order of an induced forest (resp. tree) in G . We give upper bounds for $f-t$ (depending upon the value of n) and show that these bounds are tight. We present similar results for the difference between the stability number of G and the maximum order of an induced tree in G .