Backward Substitution

This method is also known as the backtracking method or the backward iteration method.

Backward substitution starts from the last term(t_n) of a sequence and moves towards the base condition (t_0) by repeatedly substituting the right $-$ hand side of a recurrence equation.

The process is continued till the closed form is obtained, which can be confirmed by the observation of the common pattern that emerges from the process of repeated substitution.

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