Some elementary properties of Landau notations. *Let $(a_n)_n$ and $(b_n)_n$, as well as $(u_n)_n$ and $(v_n)_n$, be sequences of complex numbers. Then:*

$$a_n = O(1) \ \text{ and } \ u_n = O(1) \Rightarrow a_n + \lambda u_n = O(1) \tag{2}$$

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