

- (1) $a_n = O(1)$ and $u_n = O(1) \Rightarrow a_n + \lambda u_n = O(1)$
 (2) $a_n = O(1)$ and $u_n = O(1) \Rightarrow a_n u_n = O(1)$
 (3) $a_n = o(u_n)$ et $b_n = O(v_n) \Rightarrow a_n b_n = o(u_n v_n)$
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$$(4) \quad a_n := \frac{n-1}{n}, \quad x_n := \frac{n^2+1}{n^2},$$

$$b_n := -1, \quad y_n := -1.$$

$$a_n = O(1) \text{ and } u_n = O(1) \Rightarrow a_n + \lambda u_n = O(1) \quad (5)$$

$$a_n = O(1) \text{ and } u_n = O(1) \Rightarrow a_n u_n = O(1) \quad (6)$$

$$a_n = o(u_n) \text{ et } b_n = O(v_n) \Rightarrow a_n b_n = o(u_n v_n) \quad (7)$$

$$a_n := \frac{n-1}{n}, \quad (8) x_n := \frac{n^2+1}{n^2},$$

$$b_n := -1, \quad y_n := -1.$$