



Question

If $\sum a_n$ and $\sum b_n$ are convergent series of numbers and c is a real number, which of the following identities is always true? (There may be more than one correct answer.)

- A. $c \sum a_n = \sum ca_n$
- B. $\sum a_n + \sum b_n = \sum (a_n + b_n)$
- C. $(\sum a_n)(\sum b_n) = \sum a_n b_n$
- D. $(\sum a_n)^2 = \sum a_n^2$