ABSTRACT. When \( A \) and \( B \) are closed subspaces of a Hilbert space \( X \), and \( P_A \), \( P_B \) are the corresponding orthogonal projections, von Neumann showed that

\[
(I - P_A)(I - P_B)^n(x) \to (I - P_{A+B})(x) \quad (x \in X).
\]

This result is extended by replacing \( X \) with any smooth and uniformly convex Banach space, and \( A \) and \( B \) any closed subspaces whose corresponding metric projections \( P_A \), \( P_B \) are linear. Further, it is shown that (\( \alpha \)) holds whenever \( X \) is a uniformly smooth and uniformly convex Banach space and \( A, B \) closed subspace such that \( A + B \) is closed.