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When is

$$f(x_1, x_2, \cdots, x_n) = u_1(x_1) + u_2(x_2) + \cdots + u_n(x_n)?$$

We will discuss condition on a non-empty subset $S \subset X_1 \times X_2 \times \cdots \times X_n$ under which every real valued function f on S is of the form $\sum_{k=1}^{n} u_k(x_k)$, as also the connection with dynamics and analysis.