1 | Axler6.45 orthogonal complement, U^\perp

if U is a subset of V, then the orthogonal complement of U, denoted U^{\perp} , is the set of all vectors in V that are orthogonal to every vector in U:

$$U^{\perp} = \{ v \in V : \langle v, u \rangle = 0 \forall u \in U \}$$

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