

Answer on Question #44919 – Math - Linear Algebra

If W_1 and W_2 are subspaces of vector space V and $W_1 + W_2 = V$, then $W_1 \cap W_2 = \{0\}$

Answer

False. $W_1 \cap W_2 = \{0\}$ for subspaces W_1 and W_2 of vector space V means that $W_1 \oplus W_2 = V$, but direct sum is only the special case of $W_1 + W_2$.