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4.1 • Solutions 189 The union of two subspaces is not in general a subspace. For an example in \mathbb{R}^2 let H be the x-axis and let K be the y-axis. Then both H and K are subspaces of \mathbb{R}^2 , but $H \cup K$ is not closed under vector addition. The subset $H \cup K$ is thus not a subspace of \mathbb{R}^2 . 33. a. Given subspaces H and K of a vector space V, the zero vector of V belongs to $H + K$, because 0 is in

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