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5 Theorem. V and W are isomorphic , there is a bijective linear map L: V ! W. Proof.) If V and W are isomorphic we can find linear maps L: V ! W and K: W ! V so that LK = IW and KL = IV. Then for any y = IW(y) = L(K(y)) so we can let x = K(y), which means L is onto. If L(x1) = L(x2) then x1 - IV (x1) = KL(x1) = KL(x2) = IV (x2) = x2, which means L is 1:1.

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4.1 • Solutions 189 The union of two subspaces is not in general a subspace. For an example in 2 let H be the x-axis and let K be the y-axis. Then both H and K are subspaces of 2, but H U K is not closed under vector addition. The subset H U K is thus not a subspace of 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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