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real form

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Author bwebste (988) Entry type Definition Classification msc 17B99 Let G be a complex Lie group. A real Lie group K called a *real form* of G if $\mathfrak{g} \cong \mathbb{C} \otimes_{\mathbb{R}} \mathfrak{k}$, where \mathfrak{g} and \mathfrak{k} are the Lie algebras of G and K, respectively.