



root lattice

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|------------------|---------------------|
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If  $R \subset E$  is a root system, and  $E$  a Euclidean vector space, then the root lattice  $\Lambda_R$  of  $R$  is the subset of  $E$  generated by  $R$  as an abelian group. In fact, this group is free on the simple roots, and is thus a full sublattice of  $E$ .