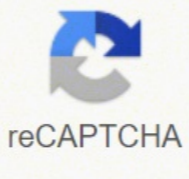




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Proposition 14. If H and K are subgroups of a group, HK is a subgroup if and only if HK = KH.

Proof: Assume first that HK = KH and let a, b in HK. We prove ab^-1 in HK so HK is a subgroup by the subgroup criterion. Let

a = h1k1 and b = h2k2,

for some h1, h2 in H and k1, k2 in K. Thus b^-1 = k2^-1h2^-1, so ab^-1 = h1k1k2^-1h2^-1. Let k3 = k1k2^-1 in K and h3 = h2^-1. Thus ab^-1 = h1k3h3. Since HK = KH,

k3h3 = h4k4, for some h4 in H, k4 in K.

Thus ab^-1 = h1h4k4, and since h1h4 in H, k4 in K, we obtain ab^-1 in HK, as desired.

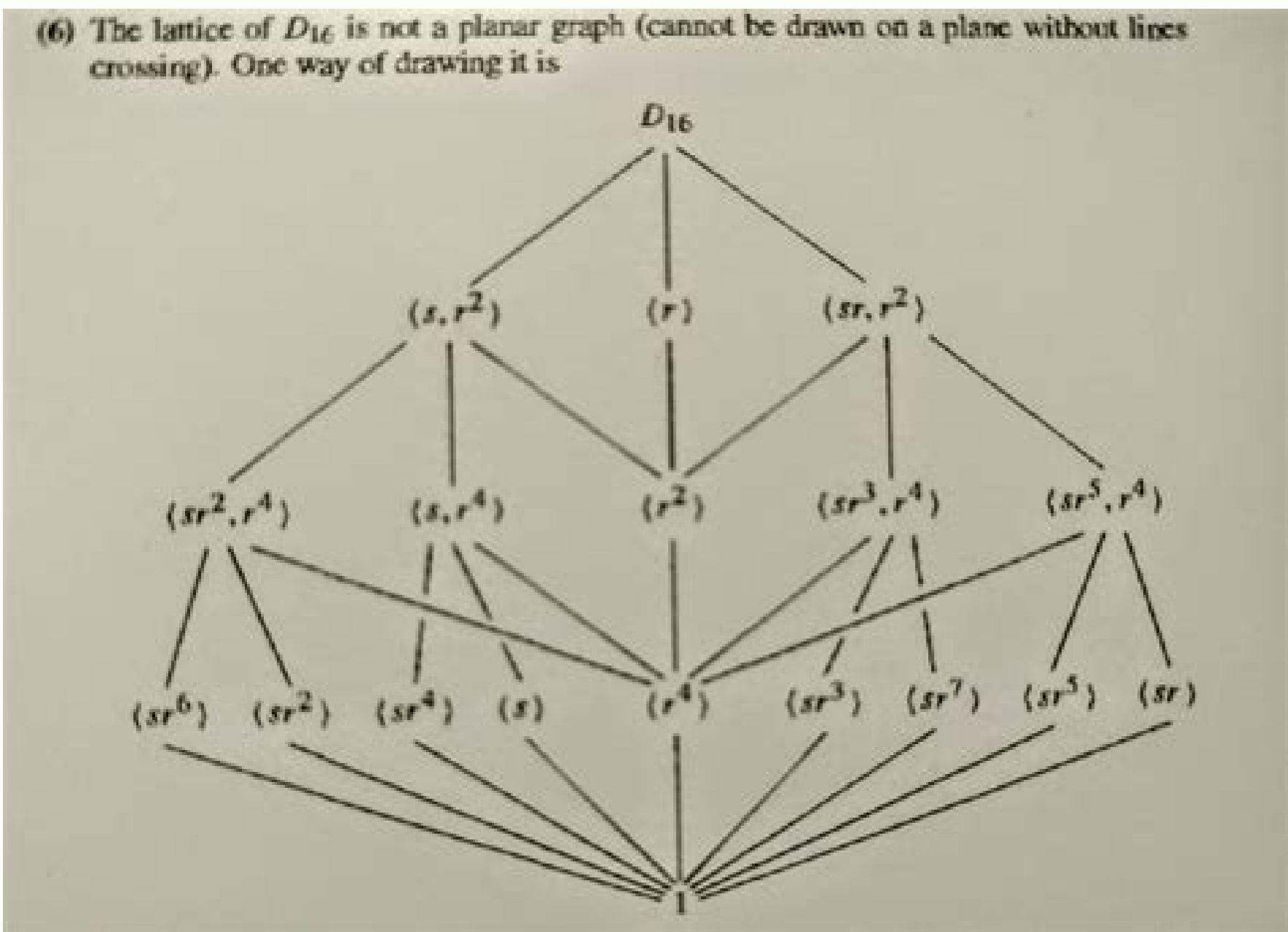
Conversely, assume that HK is a subgroup of G. Since K <= HK and H <= HK, by the closure property of subgroups, KH <= HK. To show the reverse containment let hk in HK. Since HK is assumed to be a subgroup, write hk = a^-1, for some a in HK. If a = h1k1, then

hk = (h1k1)^-1 = k1^-1h1^-1 in KH,

completing the proof.

Table with 5 columns: Rank, Name, Latest team, Matches played, Total points. Lists players like Rahul Chaudhari, Pardeep Narwal, Deepak Niwas Hooda, and Ajay Thakur.

To prove (3), it suffices by induction to prove that if P1 <= P2 and Q1 is a prime of S with Q1 n R = P1 then there is a prime Q2 of S with Q1 <= Q2 and Q2 n R = P2.



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