

# Topics in Algebra solution

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## Problems in the Section 2.6.

1. If  $H$  is a subgroup of  $G$  such that the product of two right cosets of  $H$  in  $G$  is again a right coset of  $H$  in  $G$ , prove that  $H$  is normal in  $G$ .

*Proof.* Consider the product of  $Hg$  and  $Hg^{-1}$ . Consequently,  $HgHg^{-1} = Hc$  for some  $c \in G$ . As  $cgcg^{-1} = c = hc$  for some  $h \in H$ ,  $c \in H$ . Therefore,  $HgHg^{-1} = H$ , implying  $gHg^{-1} = H$ . Hence  $H$  is normal in  $G$ .  $\square$

2. If  $G$  is a group and  $H$  is a subgroup of index 2 in  $G$ , prove that  $H$  is a normal subgroup of  $G$ .

*Proof.* We can represent the coset decomposition of  $G$  in two different ways. That is,

$$G = H \amalg xH, \quad G = H \amalg Hx$$

for some  $x \notin H$ . This forces us that  $xH = Hx$ , hence  $H$  is normal in  $G$ .  $\square$

3. If  $N$  is a normal subgroup of  $G$  and  $H$  is any subgroup of  $G$ , prove that  $NH$  is a subgroup of  $G$ .

*Proof.* Let  $nh, n'h' \in NH$ . Consequently,

$$nh \cdot n'h' = nhn'h^{-1}hh' = n(n'h)hh' \in NH$$

and

$$(nh)^{-1} = h^{-1}n^{-1} = h^{-1}n^{-1}hh^{-1} = n'h^{-1} \in NH.$$

Hence,  $NH$  is a subgroup of  $G$ .  $\square$

4. Show that the intersection of two normal subgroups of  $G$  is a normal subgroup of  $G$ .

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**Emilie Sanchez**



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