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$\frac{1}{4}g!b^3\dot{I}\ll e\pm$

Book information: I. N. Herstein, *Abstract Algebra*, 3rd ed, Prentice-Hall International (UK) Limited, London.

Notations: $N|>G$ - N is a normal subgroup of G .

$\circ\hat{o}\P\pi^{\circ}\otimes en^{\circ}\forall n-m^3E\forall\forall H, \pi E^3L\int^3Y\hat{o}!\acute{o}^{\circ}\acute{o}\acute{o}\sim, \odot\dot{I}\rightarrow O\cdot Qn,\acute{E}$
 $\forall R^{\circ}\circ, \odot\dot{I}\rightarrow O;\int^3\sim\delta\forall L\acute{A}D\forall\emptyset$ (St,Nμ³Sô;n, $\sim\tilde{A}\forall B\pi E\odot w\rightarrow O^3\acute{o}$
 $\forall\pi\odot\hat{N}$) $\circ\circ\int q\pi I\acute{A}\acute{E}, \tilde{A}w^{\circ}i\sim\acute{O}^3s\mu, \S U :-)$

2 - Groups

1) Definitions and Examples of Groups

2.1.29 (counting principles)(Plover)

Let G be a finite nonempty set with an operation $*$ such that:

1. G is closed under $*$.
2. $*$ is associative.
3. Given $a, b, c \in G$ with $a*b = a*c$, then $b=c$.
4. Given $a, b, c \in G$ with $b*a = c*a$, then $b=c$.

Prove that G must be a group under $*$.

Pf YunÃÔCú (1) There exists a special element $e \in G$ such that $e*a = a*e = a$ for all $a \in G$. (2) For every $a \in G$ there exists an element $b \in G$ such that $a*b = b*a = e$.

Let the order of G be n . For any $a \in G$, we consider a sequence $\{a^i\}$

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