Chapter 33, Problem 4ED

A Book of Abstract Algebra (2nd Edition)

Bookmark

Show all steps:

If G is a finite group, then the group H is normal subgroup of G is denoted by $H \triangleleft G$

A simple group is a nontrivial, which have the subgroups trivial group and group itself.

Comment			
	Step 4	of 4	
Consider <i>K</i> is maximal no	rmal subgroup of <i>G</i> wl	nich is represented by $K \triangleleft C$,
Then, $H \triangleleft K \triangleleft G$			
$\frac{G}{H}$ is not a simple.			
Since, H is not a maximal	subgroup.		
Then, $\frac{G}{K}$ is simple.			
Since, K is maximal norm	al subgroup of <i>G</i>		
So it has no nontrivial sub	groups.		
Hence, proved			
Comment			