AMAT 327(Z): Elementary Abstract Algebra, Spring 2012	Quiz # 21, April 24
Name:	
If $M \triangleleft G$ and $N \triangleleft G$ and $MN = \{ mn \mid m \in M, n \in N \}$, prove that MN is a su	bgroup of G .

Bonus question: Prove that under these conditions $MN \triangleleft G$.