Homework 5
due November 7, 2001 in class

(1) Show that the direct product of abelian groups is abelian.
(2) Find the index of $\langle x \rangle$ and $\langle y \rangle$ in S_3.
(3) Artin 2.8.8 (pg. 75)
(4) Artin 2.8.9 (pg. 75)
(5) Artin 2.10.5 (pg. 76)
(6) Artin 2.10.8 (pg. 76)
(7) Artin 2.10.9 (pg. 76)