AMAT 327(Z): Elementary Abstract Algebra, Spring 2012 Quiz # 14, March 20

Name: .....

Please complete the following definitions.

1] A *group* is a set G together with an operation $*$ satisfying the following axioms:

2] A group G is called *abelian* if

3] A non-empty subset H of a group G is a *subgroup* if and only if the following two conditions hold:

- for every $h, k \in H$,
- for every $h \in H$,

4] If G is a group and a is an element of G then the *cyclic subgroup generated by* a is the subgroup

$(a) =$

5] A group G is called *cyclic* if