Name: ....................................................................................................

Please complete the following definitions.

1] We say that a function $f \colon X \to Y$ is *injective* if

2] We say that a function $f \colon X \to Y$ is *surjective* if

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

4] A group $G$ is called *abelian* if

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

$$(a) =$$

6] A group $G$ is called *cyclic* if