Homework

- 13 muilbox #10, IPM
- 4 grand floor of with tower
- 4 700 North tower

1.2. E12: Show if S is a finite semigroup where both cancellation laws hold turn S is a group.

- Show that ax=b, ya=b are solvable 
   ∀ a,b ∈ S.
- 1) if the above holds, S is a group.

Done ...

1.3.E4 is 
$$(Q,+) \cong (Z,+)^{7}$$
 No.

1.4.ES - G a gr where 
$$x^2 = e \forall xee$$
, show G is a belian.  
 $y = (xy)^{-1} = y^{-1}x^{-1} = yx$ 

- what about 
$$x^3 = e^{-7}$$
. No (Hersenberg group).

1,5,E1