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In a group  $G$ , the equation  $ax = b$  has solution  $a^{-1}b$  and  $ya = b$  has solution  $ba^{-1}$ . Conversely, in a semigroup,  $ax = b$  and  $ya = b$  are solvable. In particular,  $ax = a$  is solvable for some  $a$ . Denote the solution by  $1r$ . For any  $b \in G$ , there exists  $y$  such that  $ya = b$  by hypothesis. Then  $b1r = ya1r = ya = b$ , and  $1r$  is a right unit. Moreover, for any  $a \in G$ ,  $ax = 1r$  are solvable.

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$\varphi: G \rightarrow G$  defined by  $\varphi(x) = x^2$ . Then  $\ker \varphi = K$  and  $\varphi$  is surjective. 2. Show that  $\varphi: G \rightarrow G$  is an automorphism of a group  $G$  if and only if  $G$  is abelian,

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Solution to exercise 1 from section 1.1 from Nathan Jacobson's textbook, "Basic Algebra I."

~~Jacobson Section 1.1 Exercise 1~~

Solutions will also be posted and will include students' work. Nathan Jacobson, Basic Algebra I. (and Basic Algebra II for next semester). Math 5031 Algebra I Fall Semester 2012 Instructor: Office: Cupples I, Room 114 e-mail: matkerr [at] math.wustl.edu



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Office Hours: Tues/Thurs 4-5:30, and by appointment  
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$r = c(r-c)$ ,  $r > 0$ . Then  $c(kc) = c(k+t)$  (which is easy to see and will be proved in section 1.4). Then  $(c) = \{c(k) \mid k \in \mathbb{Z}\}$  together with the usual composition of transformations and  $c(1) = 1$  constitute a morphism.

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Let  $U_n$  denote the set of complex numbers which are  $n$ th roots of unity in the sense that  $z^n = 1$ . It is easy to determine these using the polar representation of a complex number:  $z = re^{i\theta} = r(\cos \theta + i \sin \theta)$ ,  $r = |z|$ ,  $\theta$ , the argument (= angle) of  $z$ . If  $z_1 = r_1 e^{i\theta_1}$  and  $z_2 = r_2 e^{i\theta_2}$  then  $z_1 z_2 = r_1 r_2 e^{i(\theta_1 + \theta_2)}$ .

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Let  $a$  and  $b$  be two integers. If  $a|b$  and  $b|a$ ; then show that  $a = \pm b$ : Solution: If  $a|b$ ; then  $b = ka$  for some integer  $k$ : If  $b|a$ , then  $a = \pm b$  for some integer  $l$ : Hence  $b = ka = \pm k'l$ ; then we obtain  $b \pm k'l = 0$ : This implies  $b(1 \pm k'l) = 0$  so either  $b = 0$  or  $k'l = \pm 1$ : If  $b = 0$ ; then  $a = 0$  and hence  $a = \pm b$  and we are done.

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In the Euclidean domain case he is essentially using invertible (elementary) linear transformations whose effect on a row (or column) is to view it as the gcd of its entries, then apply the Euclidean algorithm to reduce the row to one whose only nonzero entry is the gcd of all initial entries  $a_i$ .

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