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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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Let $G = (\mathbb{Q}; +; 0)$, $K = \mathbb{Z}$. Show that $G=K$ ' the group of complex numbers of the form $e^{2\pi i\mu}$, $\mu \in \mathbb{Q}$, under multiplication. Proof.

Define a homomorphism $\phi: G \rightarrow \mathbb{C}^*$ by $\phi(e^{2\pi i\mu}) = e^{2\pi i\mu}$. Then $\ker \phi = K$ and ϕ is surjective. 2. Show that $a \mapsto a^{-1}$ 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
Office Hours: Tues/Thurs 4-5:30, and by appointment Course
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Let c (be a particular transformation of S and define c (k
inductively by c (= 1, c ($r = c$ ($r - c$ (, $r > 0$. Then c (kc ($t = c$ ($k + t$

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(which is easy to see and will be proved in section 1.4). Then $(c) = \{c \mid k \mid e \mid 4\}$ together with the usual composition of transformations and $c (= 1)$ constitute a mortold.

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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: $z = re^{i\theta} = r(\cos \theta + i \sin \theta)$, $r = |z|$, θ , 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 $a \mid b$ and $b \mid a$; then show that $a = \pm b$:
Solution: If $a \mid b$; then $b = ka$ for some integer k : If $b \mid a$, then $a = lb$ for some integer l : Hence $b = ka = klb$; then we obtain $b(kl - 1) = 0$: This implies $b(1 - kl) = 0$ so either $b = 0$ or $kl = 1$: If $b = 0$; then $a = 0$ and hence $a = \pm b$ and we are done.

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task at hand ...

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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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