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G by  $x$   $y := (x+y$  if  $x+y < 1$  and

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Solution: If  $ajb$ ; then  $b = ka$  for some integer  $k$ : If  $bja$ , then  $a = l b$  for some integer  $l$ : Hence  $b = ka = k l b$ ; then we obtain  $b k l - b = 0$ : This implies  $b(k l - 1) = 0$  so either  $b = 0$  or  $k l = 1$ : If  $b = 0$ ; then

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problems Problem A. Find  $32C$  such  
that  $Q(i; p^2) = Q(\ )$ . Solution to A.

Either one can use the proof of the

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Solutions primitive element theorem, or, or one can just do this by hand. A little experimenting leads to the guess  $= i^3 p^2$ . This clearly lies in the field  $\mathbb{Q}(i; \sqrt[3]{p^2})$ .

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$(\text{mod } n)=1$  has a solution if and only if

$d=1$ .  $^k; \dagger; \forall \in \quad U(n) \hat{=} S \acute{E}[? U(n)$

$\ddot{y}u5b \text{ } ^\circ$  Elementary Number Theory

$2\check{c}iZ \quad n$  Proof. We need a lemma:

$\text{gcd}(a;b)=1 \quad s;t \quad Z$  such that

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**Solutions**  $as+bt=1$ : ( ) It follows immediately from p.4, thm.0.2. ( ) If there exists  $s; t \in \mathbb{Z}$  such that  $as+bt=1$ , then since  $\gcd(a;b) \mid a$  and  $\gcd(a;b) \mid b$ , we have  $\gcd(a;b) \mid (as+bt)=1$ .

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