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 There are one  
 hundred  
 twenty  
 generators of  
 $\mathbb{Z}/225$ : a  
 positive  
 integer  $a <$   
 $225$  is a  
 generator of  $\mathbb{Z}/$   
 $225$  just in  
 case it is  
 divisible by  
 neither 3 nor  
 5. 5. Let  $G :=$   
 $[0,1)$  be the

set of real  
 numbers  $x$   
 with  $0 \leq x <$   
 $1$ . Define an  
 operation  $*$   
 on  $G$  by  $x*y$   
 $:= (x+y$  if  $x+y$   
 $< 1$  and Using  
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 problems on  
 each topic.  
 The fourth  
 chapter is the  
 beginning of  
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<p>extensions and Galois theory. In most of African universities curricululum, the last two chapters are given at graduate ...Problems on Abstract Algebra (Group theory, Rings, Fields ...Solution: If <math>ajb</math>; then <math>b = ka</math> for some integer <math>k</math>: If <math>bja</math>, then <math>a = 'b</math> for some integer <math>l</math>: Hence <math>b = ka = k'b</math>; then we obtain <math>b k'b = 0</math>: This implies <math>b(1 k') = 0</math> so either <math>b = 0</math> or <math>k' = 1</math>: If <math>b = 0</math>; then EXERCISES AND</p>	<p>SOLUTIONS IN GROUPS RINGS AND FIELDS ABSTRACT ALGEBRA 2 SOLUTIONS TO THE PRACTICE EXAM AND HOMEWORK 1. Practice exam problems Problem A. Find <math>32C</math> such that <math>Q(i; p^2) = Q( )</math>. Solution to A. Either one can use the proof of the primitive element theorem, or, or one can just do this by hand. A little experimenting leads to the guess <math>= i^3 p^2</math>. This clearly lies in the field <math>Q(i; 3 p</math></p>	<p>2). ABSTRACT ALGEBRA 2 SOLUTIONS TO THE PRACTICE EXAM AND HOMEWORK HOWEVER, one of the major problems in teaching an abstract algebra course is that for many students it is their first encounter with an environment that requires them to do rigorous proofs. Such students often find it hard to see the use of learning to prove theorems and propositions; applied</p>
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$\gcd(a;b)Sb$ ,  
we have  
 $\gcd(a;b)S(as+bt)=1$ .

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However, one of the major problems in teaching an abstract algebra course is that for many students it is their first encounter with an environment that requires them to do rigorous proofs. Such students often find it hard to see the use of learning to

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integer  $k$ : If  $a = kb$ , then  $a = kb$  for some integer  $k$ . Hence  $b = ka = k^2b$ ; then we obtain  $b(k^2 - k) = 0$ : This implies  $b(k-1)k = 0$  so either  $b = 0$  or  $k = 1$ : If  $b = 0$ ; then

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just do this by hand. A little experimenting leads to the guess  $= i3 p 2$ . This clearly lies in the eld  $Q(i;3 p 2)$ .

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