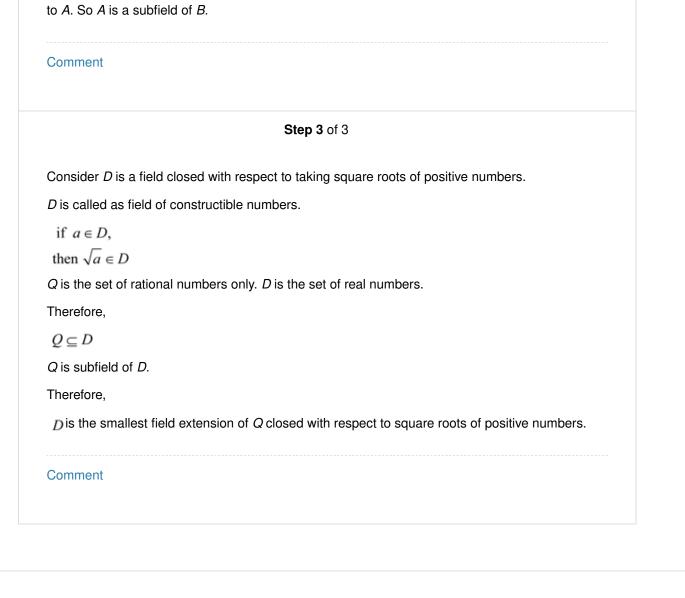
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	Chapter 30, Problem 3EG	Bookmark	Show all steps: ON	
Problem				
	Prove each of the following: ① is the smallest field extension of ② closed with respect to square roots of positive numbers (that is, any field extension of ② closed with respect to square roots contains ①). (Use part 2 and Exercise A.)			
Step-by-step solution				
Step 1 of 3				
	Here, objective is to prove that <i>D</i> is the smallest field extension of <i>Q</i> closed with respect to square roots of positive numbers. Comment Step 2 of 3			
	B is field extension of A: It is a pair of fields, that the operations of A are those of B are restricted			



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