A Book of Abstract Algebra | (2nd Edition)

		blem	
Prove each of the following:			
Any constructible number ca subtraction, multiplication, di			•
	Step-by-st	ep solution	
	Step 1	of 3	
Here, objective is to prove the by repeated addition, subtract	-		
Comment			
	Step 2	of 3	

Constructible point: A point is said to be constructible, if it is either the end point of a given line segment or intersection of lines which are determined by previously obtained constructible points.			
Comment			
Step 3 of 3			
Constructible number is a coordinate of a constructible point.			
Let p is a constructible point then say n number of points $p = p_1, p_2, \dots, p_n$			
So,			
The point p is constructible from p_1, p_2,p_n by using arithmetic operations such as additional subtraction, multiplication and square roots. Coordinates of point p are obtained by starting rational numbers and then applying these operations.			
So such type of numbers correspond to line segments, they can be constructed using only straight edge and compass.			
Therefore,			
any constructible number can be obtained from rational numbers by repeated addition, subtraction, multiplication, division and square roots of positives.			
Hence, proved.			

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