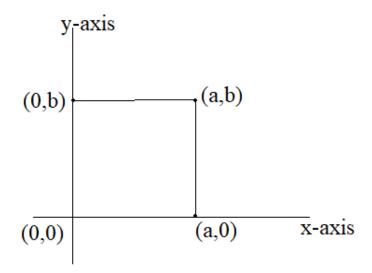
# A Book of Abstract Algebra | (2nd Edition)

Chapter 30, Problem 1	ΞВ	Bookmark	Show all steps: ON					
Problem								
Prove each of the follow  Let  be any set of property to the constructible from	oints in the plane; (a, b	e) is constructible from						
	Step-by-s	step solution						
	Step	<b>1</b> of 3						
Here, objective is to proconstructible from $A$ .	ve that $(a,b)$ is constru	ctible from $_{A}$ , if and on	ly if $(a,0)$ and $(0,b)$ are					
Comment								
	Step	<b>2</b> of 3						
Constructible point:								
The point is either the e	nd point of given unit s	egment or it is the inters	section of two lines					

determined by previous constructible points is called as constructible point.							
Comment							
		<b>Step 3</b> of 3					

Let A be the set of points in the plane.

Consider the below figure:



## figure:construction of (a,b)

Consider (a,0) and (0,b) are constructible from A.

Construct perpendicular lines to the x-axis and y-axis passing through (a,0) and (0,b).

Then the perpendicular lines intersect at the point (a,b).

Therefore, (a,b) is constructible from A, if and only if (a,0) and (0,b) are constructible from A.

Hence, proved

Comment

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