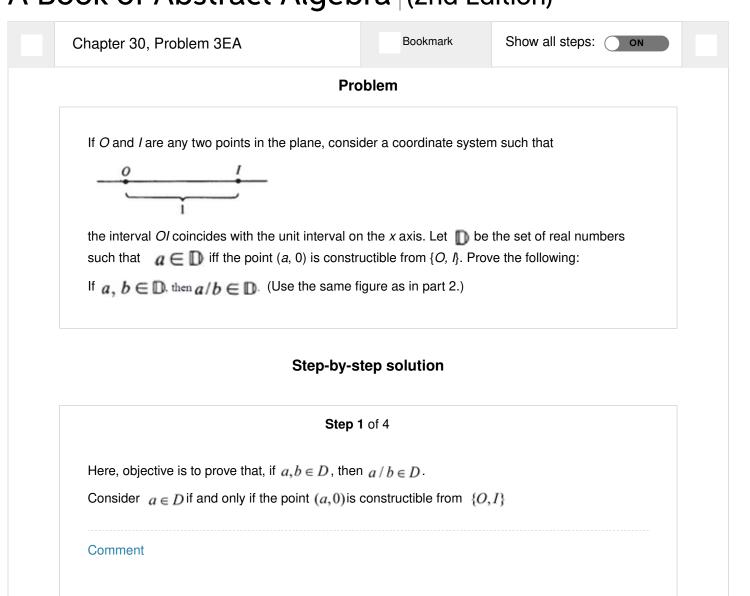
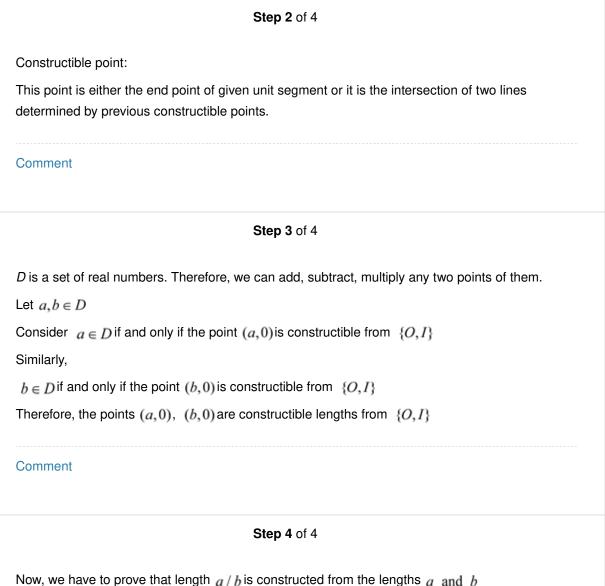
A Book of Abstract Algebra (2nd Edition)





Now, we have to prove that length $a \mid b$ is constructed from the lengths a and b Consider the below figure:

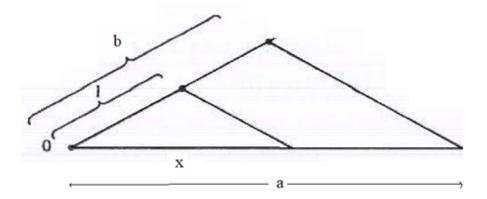


figure: construction of a/b

by observing there exist two similar triangles.

a and b are constructible lengths.

using the property of similar triangles, we have

$$\frac{1}{x} = \frac{b}{a}$$

$$x = \frac{a}{b}$$

Then, the point (a/b,0) is constructible from $\{O,I\}$ which implies $a/b \in D$

Therefore, if $a, b \in D$, then $a / b \in D$.

Hence, proved

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