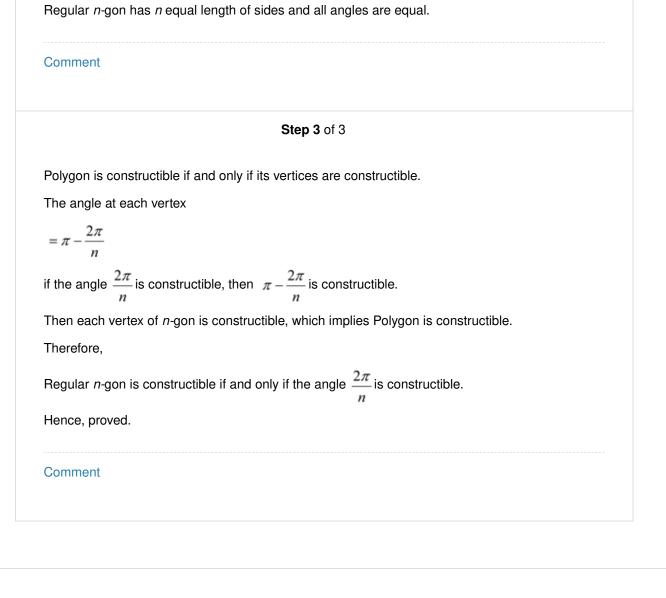
# A Book of Abstract Algebra | (2nd Edition)

Chapter 30, Problem 1ED	Bookmark	Show all steps: ON
Problem		
A polygon is called <i>constructible</i> iff its vertices ar	e constructible points	. Prove the following:
The regular <i>n</i> -gon is constructible iff the angle 2	$\pi/n$ is constructible.	
Step-by-ste	ep solution	
Step 1	of 3	
Here, objective is to prove that the regular <i>n</i> -gon constructible.	is constructible if and	only if the angle $\frac{2\pi}{n}$ is
Comment		
Step 2	of 3	
Constructible point:		
The point is either the end point of given unit segment or it is the intersection of two lines determined by previous constructible points.		



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