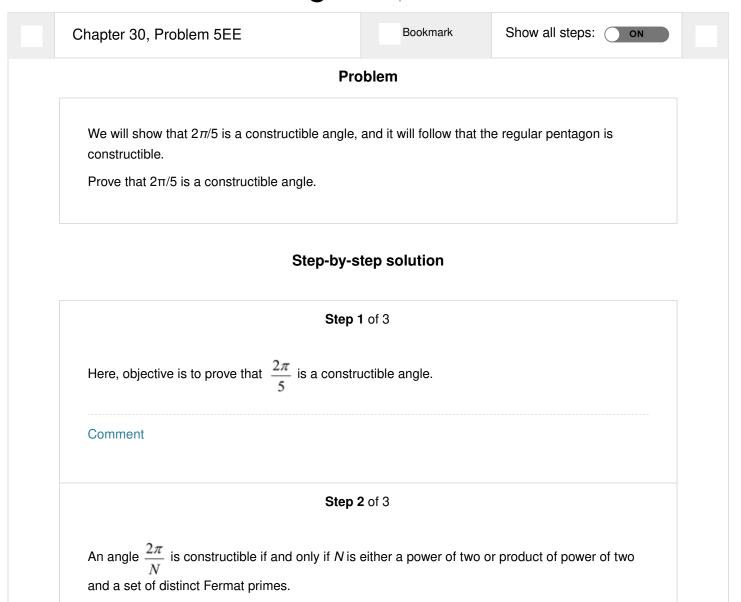
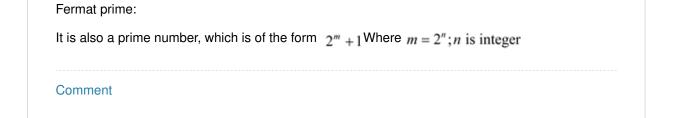
# A Book of Abstract Algebra (2nd Edition)





# **Step 3** of 3

To verify  $\frac{2\pi}{5}$  is constructible or not:

$$\frac{2\pi}{N} = \frac{2\pi}{5}$$

$$N = 5$$

5 is a Fermat prime.

Since 5 can be written in the form of  $2^{2^n} + 1$ . That is for n = 1

$$2^{2^1} + 1 = 5$$

Therefore,  $\frac{2\pi}{5}$  is constructible angle,

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