

My abstract algebra exercises

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Chapter 1

Groups

1.1 Symmetries of a Regular Polygon

Content of this section was pretty much taken care of in a previous try at an abstract algebra course

1.2 Introduction to Groups

Same applies to this section

1.3 Properties of Group Elements

1.3.1

Find the orders of $\bar{5}$ and $\bar{6}$ in $(\mathbb{Z}/21\mathbb{Z}, +)$

We follow that order of $\bar{5}$ is 21 and 7 for $\bar{6}$.

1.3.2

Find the orders of $\bar{21}$ in $\mathbb{Z}/52$

It's 13

The rest of the exercises (or exercises similar to those given in a book) were taken care of previously in previous books