# HONORS ALGEBRA: HOMEWORK 8

## Due noon Wednesday 26th October 2022

Herstein, section 2.10, page 101, Questions 1, 3.

Additional question (2.10.A): Give a representative for every isomorphism class of abelian groups of order 240.

Additional question (2.10.B): Give a representative for every isomorphism class of abelian groups of order 540.

In each case, make sure that your answer is a direct product involving no more than four factors.

Herstein, section 2.11, page 106, Questions 1, 3, 4, 5, 9, 13.