## Math-113, Homework 9

A. For each of the four rings $R$ below determine the corresponding group of units $R^{\times}$and classify it according to the Fundamental Theorem of Finitely Generated Abelian Groups. In all cases justify your answer.

- $\mathbb{Z}_{15}$
- $\mathbb{Z}_{16}$
- $\mathbb{Z}_{20}$
- $\mathbb{Z}_{30}$

