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}