# MATH 340 Assignment 2, Fall 2017 

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This assignment is to be handed in by 11:20 am Friday September 29th in the MATH 340 drop off box (box $\# 6$ outside AQ 4115). Late penalty: $-20 \%$ for up to 72 hours late. Zero for more than 72 hours late.

## Section 1.4: Prime Numbers

Exercises 3, 4.

## Section 1.5: Relations and Partitions

Exercises 1, 5, 9 .

## Section 1.6: Modular Arithmetic

Exercises 11, 12, 14.
Also prove Theorem 1.6.6 parts 3, 5, and 6 .

## Section 1.7: Equations in $\mathbb{Z}_{n}$

Exercises 3, 5, 6, 10, 11, 12.
Which elements of $\mathbb{Z}_{24}$ are units and which are zero-divisors?
Also prove Theorem 1.7.6 (iii)

