# Spring 2021, Math 522: Preliminary Problem Set 5 

Due: Thursday, February 25th, 2021
The Chinese Remainder Theorem

Preliminary problems. These should be submitted to Gradescope before Thursday discussion.
(P1) Determine which elements of $\mathbb{Z}_{6}$ have multiplicative inverses. For each, find the inverse.
(P2) Find a complete set of solutions to the equation $5 x+4 \equiv 2 \bmod 6$ (it should be infinite!).

