HW 11
Due: Wednesday, April 23

Do 2/81, 82i and ii, 85 ($\mathbb{I}$ means $\mathbb{Z}/n\mathbb{Z}$), 86i, 90, 91, and the following:

A. Use the 1st Isomorphism Theorem to prove that if G is cyclic of order n, then $\mathbb{Z}/n\mathbb{Z} \cong G$.

B. Show that $\mathbb{Z}^2 / \langle (5,8) \rangle \cong \mathbb{Z}$.

C. Show that $\mathbb{Z}^2 / \langle (16,6) \rangle \cong \mathbb{Z} \times \mathbb{Z}/2\mathbb{Z}$.