

• Prove Theorem 3.6 or 3.7

• Prove the composition of isomorphisms is an isomorphism (3.3 # 27)

• Prove a subset is (or is not)

a subring (including center or kernel)  
Prove properties of units and zero-divisors

Prove a function is or is not

• one to one

• onto

• a homomorphism.

Sample problems: 3.1 # 13, 32, 39

3.2 # 7, 17, 21, 22, 27

3.3 # 4, 5, 6, 7, 8, 11, 12, 14