

**Problem 1: Lagrange's Theorem (10 points)**

(a) Problem 1 Solution (1)

(b) Problem 2 Solution

- (i)  $\mathbb{Z}/2\mathbb{Z}$  is a subgroup of  $\mathbb{Z}/4\mathbb{Z}$  and  $\mathbb{Z}/2\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/4\mathbb{Z}$ .
- (ii)  $\mathbb{Z}/4\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/8\mathbb{Z}$  and  $\mathbb{Z}/4\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/16\mathbb{Z}$ .

(c) Problem 3 Solution

- (i)  $\mathbb{Z}/2\mathbb{Z}$
- (ii)  $\mathbb{Z}/4\mathbb{Z}$

(d) Problem 4 Solution

(i)  $\mathbb{Z}/2\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/4\mathbb{Z}$  and  $\mathbb{Z}/2\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/8\mathbb{Z}$ .

- (ii)  $\mathbb{Z}/4\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/8\mathbb{Z}$  and  $\mathbb{Z}/4\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/16\mathbb{Z}$ .
- (iii)  $\mathbb{Z}/8\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/16\mathbb{Z}$  and  $\mathbb{Z}/8\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/32\mathbb{Z}$ .

(iv)  $\mathbb{Z}/16\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/32\mathbb{Z}$  and  $\mathbb{Z}/16\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/64\mathbb{Z}$ .

(v)  $\mathbb{Z}/32\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/64\mathbb{Z}$  and  $\mathbb{Z}/32\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/128\mathbb{Z}$ .

- (vi)  $\mathbb{Z}/64\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/128\mathbb{Z}$  and  $\mathbb{Z}/64\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/256\mathbb{Z}$ .
- (vii)  $\mathbb{Z}/128\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/256\mathbb{Z}$  and  $\mathbb{Z}/128\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/512\mathbb{Z}$ .

(viii)  $\mathbb{Z}/256\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/512\mathbb{Z}$  and  $\mathbb{Z}/256\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/1024\mathbb{Z}$ .

(e) Problem 5 Solution

$\mathbb{Z}/2\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/4\mathbb{Z}$  and  $\mathbb{Z}/2\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/8\mathbb{Z}$ .  $\mathbb{Z}/4\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/8\mathbb{Z}$  and  $\mathbb{Z}/4\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/16\mathbb{Z}$ .  $\mathbb{Z}/8\mathbb{Z}$  is a normal subgroup of  $\mathbb{Z}/16\mathbb{Z}$  and  $\mathbb{Z}/8\mathbb{Z}$  is not a normal subgroup of  $\mathbb{Z}/32\mathbb{Z}$ .

(Problem 6: Lagrange's Theorem)

(a) Problem 6 Solution (1) (Proof: 10 points) (Lagrange's Theorem)

# Hs Mathematics Algebra 1 Unit 6 Lesson 1

**South Carolina. General Assembly**



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