D-MATH HS 2018 Prof. Emmanuel Kowalski
Exponential sums over Finite Fields. Exercise Sheet 2

January 11, 2019

Exercise 1. See Section $2.2.3, 2.2.4, 2.2.6$ and Proposition 2.7.43 in Kowalski's lecture notes in Representation Theory

Exercise 2. See Proposition 2.7.15 in Kowalski's lecture notes in Representation Theory

Exercise 3. See Theorem 4.1.1 in Kowalski's lecture notes in Representation Theory

Exercise 4. See Proposition 2.7.12 in Kowalski's lecture notes in Representation Theory

Exercise 5. See Proposition 4.3.1 in Kowalski's lecture notes in Representation Theory

Exercise 6. See Section 4.3.2, Proposition 4.3.11 and Corollary 4.3.14 in Kowalski's lecture notes in Representation Theory

Exercise 7. See Example 4.3.16 and Proposition 4.3.17 in Kowalski's lecture notes in Representation Theory