

# List of Alternate Homework Questions for Math 545

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*Here is a list of homework questions Corey wishes he could assign. This class is fantastic, and he wishes he could assign every single homework question and then go drink coffee and discuss each of them with everyone. Of course, time is bounded in its own way, and so Corey wants to make sure you all at least have enough group theoretic thoughts to keep you busy. These homework questions are not ones that you will be responsible for turning in, but if you're looking for extra practice when it comes to the exams, etc., Corey hopes these will direct your attention to the important concepts. Good luck, and ROCK ON!*

Chapter 1: (no other questions than what was assigned)

Chapter 2: 2, 6, 8, 10–12, 14, 17, 20, 23, 26, 37

Chapter 3: 6, 15, 16, 21, 22, 25, 27, 28, 29, 31, 32, 35, 41–43, 48, 54

Chapter 4: 5, 7, 10, 11, 13, 22, 26, 30–33, 55

Chapter 5: 1, 2, 5, 12, 15, 16, 21, 22, 24, 26, 31, 37, 40, 54

Chapter 6: 1, 2, 12, 15, 17, 23, 28, 41, 42

Chapter 7: 4, 12, 15, 19, 21, 22, 24, 26, 28, 29, 36, 40

Chapter 8: 4, 6, 7, 13, 21, 22, 29, 44

Chapter 9: 3, 4, 10, 16, 22, 32, 34, 41, 44–46, 50, 56, 57, 69, 71

Chapter 10: