First Homework: MATH 410
Due Wednesday, 4 September 2019

1. Exercise 2 of Section 1.1 in the text.
2. Exercise 4 of Section 1.1 in the text. (Justify the formula!)
3. Exercise 14 of Section 1.1 in the text.
4. Exercise 16 of Section 1.1 in the text.
5. Exercise 19 of Section 1.1 in the text.
6. Exercise 3 of Section 1.2 in the text.
7. Exercise 4 of Section 1.2 in the text.
8. Exercise 7 of Section 1.2 in the text.
9. Exercise 3 of Section 1.3 in the text.
10. Exercise 5 of Section 1.3 in the text.
11. Exercise 12 of Section 1.3 in the text.
12. Exercise 17 of Section 1.3 in the text.
13. Use the Field Axioms to show that $(-1)^2 = 1$.
14. Use the Ordered Field Axioms to show that $0 < 1$.
15. Prove assertion (a) of Proposition 1.18 on page 12 of the notes.