Math 406 – Fall 2025 – Harry Tamvakis
PROBLEM SET 10 – Due December 4, 2025

Reading for this assignment: Sections 11 and 12.

Problems

From the textbook: Section 11, #2, 4, 6, 8, 10, 11, 12, 16, 18. Section 12, #2, 5, 6.

Extra Credit Problem.

EC) The integers a, b, c, d, e, and f satisfy the equation

$$a^2 + b^2 + c^2 + d^2 + e^2 = f^2.$$

Prove that at least two of the numbers a, b, c, d, e, f must be even.