

MATH/CAAM 423: Partial Differential Equations

Problem Set 6: Tempered Distributions and PDEs With Boundaries

Due: Monday, October 31, 2016

Problem 1: Fundamental Solutions (30 points)

Do problem 9.12 in the textbook.

Problem 2: Elliptic Regularity (20 points)

Do problem 9.14 in the textbook.

Problem 3: Heat Flow on a Triangle (25 points)

Do problem 10.5 in the textbook.

Problem 4: Travelling Singularities (25 points, pledged)

Do problem 10.7 in the textbook.