



PARTIAL DIFFERENTIAL EQUATIONS
SPRING 2018

ASSIGNMENT 7
EXTRA PROBLEM

Exercise 1. Use the result of textbook exercise 2.3.4 to derive the formula

$$1 + \frac{1}{2^2} + \frac{1}{3^2} + \frac{1}{4^2} + \cdots = \frac{\pi^2}{6}.$$