ASSIGNMENT

1. (solo problem) Compute the Laplacian in spherical coordinates. (The author of our text dismisses this on Page 50 as “a tedious calculation using the chain rule,” but I believe that it is worthwhile to do it once in your career as a mathematics student.)

2. Problem 4 on Page 46

3. Problem 1 on Page 51

4. Problem 4 on Page 51