

MA/PHY507 Spring 2013
Problem Set 7
DUE: Wednesday, 10 April 2013

1. Arfken, section 14.1, Bessel functions, pages 659–660, problems 14.1.13 and 14.1.25.
2. Arfken, section 14.7, spherical Bessel functions, pages 710–712, problems 14.7.5, part a for $j_n(x)$ only, and 14.7.6.
3. Arfken, section 15.1, Legendre polynomials, pages 722–723, problems 15.1.1, 15.1.3, 15.1.6.