

Physics 212  
Problem Set 6  
Due Monday Oct. 20, 2008

Chapter 3 – Problems 14, 16, 18, 23

Note: for Problem 3-18 you should expand  $\cos(3\theta)$  in powers of  $\cos(\theta)$ . Then write it in terms of the various  $P_l(\cos \theta)$ . The highest order term is  $P_3(\cos \theta)$ .