

# PHYS:4762 Homework #6

Reading: Read Arfken, Weber, & Harris, Chapter 14, Sections 14.7 (p.698–709)  
Chapter 15, Sections 15.1–15.3 (p.715–741)

Due at the beginning of class, Thursday, March 8, 2018.

## Homework Problems:

1. (10 pts) Chapter 14, Exercise 14.7.5(a)
2. (10 pts) Chapter 14, Exercise 14.7.12  
NOTE: You may wish to use the result from Exercise 14.7.11
3. (10 pts) Chapter 14, Exercise 14.7.15
4. (10 pts) Chapter 15, Exercise 15.1.10
5. (10 pts) Chapter 15, Exercise 15.1.14  
HINT: You may use the result of Exercise 15.1.17
6. (10 pts) Chapter 15, Exercise 15.2.3
7. (10 pts) Chapter 15, Exercise 15.2.5
8. (10 pts) Chapter 15, Exercise 15.2.15
9. (10 pts) Chapter 15, Exercise 15.3.1
10. (10 pts) Chapter 15, Exercise 15.3.5