# PHYS:4761 Homework \#5 

Reading: Read Arfken, Weber, \& Harris, Chapter 4, Sections 4.4-4.7 (p.227-248)

Due at the beginning of class, Friday, September 29, 2017.
Homework Problems:

1. (10 pts) Chapter 3, Exercise 3.10.4
2. ( 5 pts) Chapter 3, Exercise 3.10.12
3. (5 pts) Chapter 3, Exercise 3.10.14
4. (10 pts) Chapter 3, Exercise 3.10.26
5. (10 pts) Chapter 3, Exercise 3.10.28
6. (10 pts) Chapter 3, Exercise 3.10.35
7. (5 pts) Chapter 4, Exercise 4.1.10
8. (10 pts) Chapter 4, Exercise 4.2.3
9. (10 pts) Chapter 4, Exercise 4.3.5
10. (10 pts) Chapter 4, Exercise 4.4.3
11. (10 pts) Chapter 4, Exercise 4.6.3
12. ( 5 pts) Chapter 4, Exercise 4.7.1

HINT: Let $d x=a_{1} d u+a_{2} d v+a_{3} d w, d y=b_{1} d u+b_{2} d v+b_{3} d w$, etc.

