# PHYS:4761 Homework \#5 

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

Due at 5:00pm, Friday, October 2, 2020.
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.

