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 $dx = a_1 du + a_2 dv + a_3 dw$, $dy = b_1 du + b_2 dv + b_3 dw$, etc.