

Homework Problems
Physics 319
Due January 26, 2017

Solve and submit 6 of the problems listed from Chapter 1 and 3 of the problems from Chapter 2

1. Taylor, Problem 1.3
2. Taylor, Problem 1.7
3. Taylor, Problem 1.8
4. Taylor, Problem 1.9
5. Taylor, Problem 1.10
6. Taylor, Problem 1.13

Hint: Prove and use the general formula

$$|\vec{a} \times \vec{b}|^2 = |\vec{a}|^2 |\vec{b}|^2 - (\vec{a} \cdot \vec{b})^2$$

7. Taylor, Problem 1.19
8. Taylor, Problem 1.28
9. Taylor, Problem 1.33
10. Taylor, Problem 1.37
11. Taylor, Problem 1.41
12. Taylor, Problem 1.43
13. Taylor, Problem 1.45
14. Taylor, Problem 2.11
15. Taylor, Problem 2.41
16. Taylor, Problem 2.49
17. Taylor, Problem 2.52
18. Taylor, Problem 2.54