## PHYS 3492 - MATHEMATICS FOR SCIENTISTS AND ENGINEERS II PROBLEMS

Disclaimer: The following is a list of problems from Boas that barely sample the material that we'll be covering this semester. (There are literally hundreds of problems for each chapter.) You should probably do many more problems to really understand the material. Don't be surprised if you see some of these problems on the tests. But there will be other questions as well. My advice is to do as many problems as possible; not just those listed here.

Chapter	Problems
Chpt 7	5.1, 5.2, 5.9, 5.11, 5.12, 5.13, 6.13, 6.14, 6.15, 7.12, 7.13, 8.10, 8.15, 9.1, 9.6,
	9.9, 9.15, 9.23, 10.4, 10.5, 10.6, 11.3, 11.5, 11.7, 12.3, 12.5, 12.6, 12.11, 12.18,
	12.21, 13.3, 13.21
Chpt 8	2.1, 2.3, 2.8, 2.13, 3.1, 3.2, 3.5, 3.12, 4.1, 4.3, 4.4, 4.7, 4.11, 4.15, 5.7, 5.9,
	6.4, 6.12, 6.13, 6.18, 6.23, 7.2, 7.4, 7.5, 7.25, 8.4, 8.9, 8.10, 8.11, 9.2, 9.4,
	9.23, 9.28, 10.1, 10.3, 10.9, 10.14, 10.16, 11.1, 11.3, 11.6, 11.7, 11.9, 12.1,
	12.2, 12.3, 12.6, 12.8
Chpt 9	1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.5, 3.1, 3.2, 3.15, 3.16, 3.18, 4.1, 4.3, 5.1, 5.2, 5.3,
	5.4, 5.5, 5.8, 5.11, 5.21, 6.1, 6.2, 6.4, 6.7, 8.1a, 8.1c, 8.8, 8.19, 8.22, 8.28
Chpt 11	3.1, 3.2, 3.5, 3.8, 3.14, 3.17, 5.1, 5.4, 6.1, 6.2, 7.1, 7.3, 7.7, 8.1, 8.3, 9.2, 9.4,
	10.1, 10.2, 10.3, 11.1, 11.3, 11.4, 11.5, 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, 12.7,
	12.14, 12.15, 12.17, 12.22, 13.2, 13.5
Chpt 12	1.1, 1.4, 1.5, 2.1, 2.2, 2.3, 2.4, 3.1, 3.3, 3.6, 4.1, 4.2, 4.3, 5.2, 5.3, 5.4, 5.5,
	5.6, 5.7, 5.9, 5.10, 5.14, 6.2, 6.5, 6.7, 7.1, 7.2, 7.4, 7.5, 8.1, 8.2, 8.6, 9.1, 9.2,
	9.16, 10.1, 10.2, 10.3, 10.4, 10.7, 10.8, 10.9, 10.10, 11.1, 11.2, 11.4, 11.14,
	12.1, 12.2, 12.4, 12.7, 12.9, 13.1, 13.2, 13.3, 13.5, 14.1, 14.2, 14.3, 14.4, 14.5,
	15.1, 15.2, 15.3, 15.7, 16.13, 17.2, 17.4, 17.6, 17.10, 18.1, 18.2, 18.3, 18.4,
	18.5, 18.6, 18.7, 18.8, 19.1, 19.2, 19.3, 21.1, 21.2, 21.5, 21.11, 22.1, 22.2,
	22.5, 22.6, 22.7, 22.10, 22.12, 22.14, 22.15, 22.16, 22.19, 23.19, 23.20, 23.23,
	23.24
Chpt 13	1.1, 1.2, 1.3, 2.1, 2.5, 2.10, 2.11, 2.14, 2.16, 3.2, 3.3, 3.4, 3.7, 3.10, 3.11, 4.1,
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	7.15, 7.16, 8.1, 8.2, 8.3, 8.4, 8.7, 8.8, 9.4
Chpt 14	1.1, 1.3, 1.4, 1.13, 1.18, 1.21, 2.1, 2.3, 2.4, 2.13, 2.18, 2.21, 2.22, 2.29, 2.31,
	2.34, 2.35, 2.36, 2.41, 2.44, 2.45, 2.46, 2.48, 2.49, 2.50, 2.54, 2.55, 2.59, 3.1,
	3.3, 3.6, 3.13, 3.17, 3.21, 3.22, 4.2, 4.3, 4.5, 4.9, 4.11, 5.1, 5.2, 5.3, 6.1, 6.3,
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	9.2, 9.3, 9.4, 9.7, 9.9, 9.10, 9.11, 9.13, 9.14, 10.1, 10.2, 10.3, 10.4, 10.7, 10.10