Linear Algebra Assignments
Chapters 4 & 5

Name: _____

Per.: ____

For each section, self-grade for completion. Note the value of each section. (You may use ½ points.) I trust that you will give an honest evaluation of your own work. *Assignments are subject to change. Any changes will be announced in class. Don't hesitate to try more problems for additional practice.*

____/2 4.1 Notes
____/8 4.1 #2, 4, 6def, 7, 11c, 14def, 15, 16, 17cd, 18a, 20-23, 25, 33, 34a, 35, 37

____/2 4.2 Notes
____/8 4.2 #1, 2, 3, 5, 9-19 (do one from each; not all the same), (20, 21) think, 22a, 24, 29-32

____/2 4.3 Notes
____/8 4.3 #1, 2c, 3, 6a, 7, 8-11, 13-15, 18, 19, 21, 25abd, 26

Quiz #3 (4.1 - 4.3)

____/2 5.1 Notes
____/8 5.1 #1 - 15 odd, 18, 22 - 25, 27
Use axiom names, not numbers. For #18 verify all 10 axioms.
For 1 -15 odd, Show both closure axioms for each. If vector space, also show at least 2 other axioms. If *not* a vector space, show how each axiom that does not hold fails.

____/2 5.2 Notes
____/8 5.2 #1 - 5, 6, 9, 11*, 12, 13, 16, 17, 19, 21 - 27
For 1 - 5, if it is not, explain why not. For 6, use a calculator. For 11, follow example 12, #13 is like #11.
For 19, Show each **w** is a linear combination of the **v**'s and each **v** is a linear combination of the **w**'s.

____/2 5.3 Notes
____/8 5.3 #1, 2, 4, 5, 7, 9, 10, 11, 13 (follow 5.3.3 proof), 14, 16, 19a-e, 20, 23, 26

____/2 5.4 Notes
____/8 5.4 #1, 2, 4, 5, 6, 7b, 8-11, 13, 14, 15, (18,19) by inspection, 22, 27abc, 31-35

____/2 5.5 Notes
____/8 5.5 #3bc, 4, 5c, 7, (6, 8, 9, 10)ac, 11a, 12ac, 13, 14, 15, 16b, 18* *elem. matrices

____/2 5.6 Notes
____/8 5.6 #(2, 3)ac, 4, 7, 8, 16, 17, 18 19, Read Supplementary Problems

Quiz #4 (5.1 - 5.6) Signature: _____ Date: _____

_____ **Total** (90 points) Verified By: _____
Print Signature