Undergraduate Mathematics

Linear Algebra September 2021 - May 2022

References

[FIS] Linear Algebra, 4th edition, Friedberg, Insel, Spence. [Lam] Introduction to Quadratic Forms over Fields.

Semester 1

Homework 1	[FIS] Sec 1.2: 13, 19, 20, 22.
	[FIS] Sec 1.3: 23, 31.
	[FIS] Sec 1.4: 10, 14.
	[FIS] Sec 1.5: 20.
Homework 2	[FIS] Sec 1.6: 31, 32, 35.
Homework 3	No submission required:
	[FIS] Sec 2.1: 3, 11, 13, 14, 31.
	[FIS] Sec 2.2: 2, 9, 11, 13, 15.
Homework 4	[FIS] Sec 2.3: 3, 13, 16, 18.
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Homework 5	No submission required:
	[FIS] Sec 2.4: 2, 6, 7, 16, 17, 20, 21.
	[FIS] Sec 2.5: 11, 14.
Homework 6	[FIS] Sec 3.1: 6, 12.
	[FIS] Sec 3.2: 14, 15.
	Reading assignment: Theorem 3.16
Homework 7	No submission required:
	[FIS] Sec 4.2: 4, 23.
	[FIS] Sec 4.3: 10, 11, 13, 20, 21, 22, 25, 27.
	[FIS] Sec 4.5: 16.
Homework 8	No submission required.

	[FIS] Sec 5.1: 7, 9, 20, 21.
	[FIS] Sec 5.2: 9, 11, 12.
Homework 9	Submission required:
	[FIS] Sec 5.4: 19, 20, 23.
	No submission required:
	[FIS] Sec 5.2: 18, 22.
	[FIS] Sec 5.4: 11, 13, 17, 24, 26.
Homework 10	No submission required:
	[FIS] Sec 7.1: 2, 3, 5, 13.
Homework 11	Please finish and submit four exercises in the attachment.
	No submission required:
	[FIS] Sec 7.2: 3,18,19,20,22,23.
Homework 12	As shown in the attachment, no submission required.

Semester 2

Homework: As shown in the attachments.

No submission required for extra exercises:

Extra Exercises 1	As shown in the attachment.
Extra Exercises 2	[FIS] Sec 6.1: 11, 15, 20. [FIS] Sec 6.2: 6, 7, 8, 10, 15, 16.
Extra Exercises 3	[FIS] Sec 6.3: 6, 8, 10, 11, 12, 15, 17, 18, 24(optional).
Extra Exercises 4	[FIS] Sec 6.4: 4, 7, 8, 9, 10, 13, 14(optional), 17, 18.
Extra Exercises 5	[FIS] Sec 6.5: 10, 18, 21, 23, 31, 32. [FIS] Sec 6.6: 6, 7, 10.
Extra Exercises 6	[FIS] Sec 6.7: 3, 6, 9, 15, 16, 26, 27. [FIS] Sec 6.8: 7, 16, 17, 24, 26.
Extra Exercises 7	[Lam] Chapter I, ex. 2, 5, 12 ,16.