IMPA, Instituto de Matemática Pura e Aplicada **deadline April, 15**

Linear Algebra and Applications 2019.1: List 1

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Answer the following questions clearly, show all the calculations and explain your line of reasoning until the answer. It can be delivered, handwritten, by the due date.

- **Section 1.2:** 1.2.5, 1.2.10, 1.2.11, 1.2.14, 1.2.16
- **Section 1.4:** 1.4.1
- **Section 1.5:** 1.5.4
- **Section 1.6:** 1.6.5, 1.6.7
- **Section 2.1:** 2.1.4
- **Section 2.3:** 2.3.5
- **Section 2.5:** 2.5.3
- **Section 3.2:** 3.2.4, 3.2.5
- **Section 3.5:** 3.5.11
- **Section 3.6:** 3.6.3, 3.6.9
- **Section 3.7:** 3.7.5
- **Section 3.10:** 3.10.2, 3.10.3

Reference: Meyer, C. D. "Matrix Analysis and Applied Linear Algebra", 1st edition, SIAM, 2001