

# MATH 231: Differential Equations with Linear Algebra

Hand-Checked Assignment #2, due date: Mon., Feb. 24, 2021

Write up, carefully and legibly, your solutions to the following problems. While you do not need to present one problem per page, please do not put problems side-by-side (i.e., no two-column format). To submit your work it must be

- scanned (all pages) to a single .pdf file (one multi-page file containing all graded problems).
- submitted to <https://www.gradescope.com> as **hc02**.

★10 From Section 1.6, p. 39, do Exercise 1.6.5.

★11 From Section 1.6, p. 39, do Exercise 1.6.6.

★12 From Section 1.7, p. 44, do Exercise 1.7.1.

★13 From Section 1.7, p. 45, do Exercise 1.7.2.

★14 From Section 1.7, p. 45, do Exercise 1.7.8.

★15 From Section 1.8, pp. 52–53, do Exercise 1.8.1, parts (b) and (c).

★16 From Section 1.8, pp. 53, do Exercise 1.8.3.

★17 From Section 1.8, pp. 53, do Exercise 1.8.7.

★18 From Section 1.8, pp. 53, do Exercise 1.8.8.

★19 From Section 1.8, pp. 53, do Exercise 1.8.16.

★20 From Section 1.10, pp. 64, do Exercise 1.10.6.

★21 From Section 1.10, pp. 64, do Exercise 1.10.7.

★22 [These are for practice only, not to be handed in.]

(a) From Section 1.7, pp. 45, do Exercise 1.7.7.

(b) From Section 1.7, pp. 46, do Exercise 1.7.9.

(c) From Section 1.8, pp. 54, do Exercise 1.8.10.

(d) From Section 1.9, pp. 59, do Exercise 1.9.5.

(e) From Section 1.10, pp. 63, do Exercise 1.10.1.