

MAT244H5F – Differential Equations I
FALL 2018
PRACTICE PROBLEMS

These problems & examples are meant for practice purposes only. Please do **not** turn them in. The problems are selected from the textbook and have answers at the end of the book. The examples have complete solutions in the book.

- 1.2:** Problems 3, 4
- 1.3:** Examples 4, 6; Problems 4, 8, 14, 15, 29
- 1.4:** Problems 2, 25
- 1.5:** Examples 1, 2; Problems 2, 5, 15, 31, 32
- 1.6:** Examples 1, 4, 8, 9; Problems 23, 31, 35
- 2.1:** Example 7, Problem 9
- 2.2:** Problems 3, 14, 29
- 2.4:** Example 1
- 3.1:** Examples 1, 2, 5, 6, 7; Problems 10, 12, 29, 34
- 3.2:** Problems 16, 17, 18
- 3.3:** Examples 1, 4, 5, 7; Problems 6, 18, 21
- 3.4:** Problems 14, 17, 18
- 3.5:** Examples 1, 2, 3, 4, 6, 9; Problems 21, 22
- 3.6:** Example 6; Problems 5, 6, 11
- 4.1:** Examples 6, 7; Problem 1
- 4.2:** Problems 3, 16
- 5.1:** Examples 7, 9
- 5.2:** Examples 1, 3; Problems 9, 26
- 5.3:** Examples 1, 2, 3, 11, 12, 13
- 5.5:** Examples 1, 3, 4; Problems 5, 11, 12
- 5.6:** Examples 1, 3, 5, 6, 7; Problems 2, 7
- 5.7:** Examples 1, 4; Problems 3, 23
- 6.1:** Example 2, Problems 6, 7,
- 6.2:** Examples 2, 3; Problems 19, 20, 22
- 6.3:** Example 4 (the phase portrait is in Figure 6.3.13)
- 8.1:** Examples 1, 2, 3; Problems 4, 11
- 8.2:** Examples 2, 4; Problems 3, 23, 25
- 8.3:** Examples 1, 2; Problem 1