

Homework for AMS 27

Mathematical Methods for Engineers, Winter 2005

Homework #1

Ch.1.1: 4, 6, 14, 15, 18 (no need to plot anything), 24, 28, 32, 35, 38, 41, 43, 46

Ch.2.1: 9, 12, 21, 32 (see Example 2)

Ch.3.1: 4, 5, 7, 31, 32, 34

Ch.3.2: 1, 11, 13, 14, 16, 25, 26

Ch.3.3: 2, 3, 8, 21, 23, 24, 26, 32, 35, 36, 37

Ch.3.4: 4, 7, 8, 10, 13, 17, 19, 27, 31-38

Homework #2

Ch.3.5: 2, 5, 9, 11, 20, 23, 25, 37-40

Ch.3.6: 1, 4, 7, 10, 13, 16, 24, 28, 33, 36, 41, 43-46, 52

Ch.4.1: 1, 5, 6, 12, 16, 20, 22, 26, 29, 33

Ch.4.2: 2, 9, 23, 28

Homework #3

Ch.4.3: 1, 4, 10, 13, 19, 23

Ch.4.4: 3, 5, 10, 12, 15, 18, 29

Ch.6.1: 4, 7, 15, 19, 30, 33, 34, 36

Ch.6.2: 2, 5, 19, 20, 22, 37

Ch.6.3: 4, 7, 18, 19, 27, 28, 31-33, 39-41

Homework #4

Ch.4.5: 1, 3, 17, 25, 26

Ch.4.6: 1, 2, 5, 13, 17, 24, 27, 28

Ch.1.2: 1, 2, 12, 24, 31

Ch.1.3: 4, 11, 12, 16, 22, 28

Ch.1.4: 2, 4, 5, 22, 29, 37, 41

Ch.1.5: 2, 4, 12, 20, 32, 35, 41, 44

Ch.1.6: 1, 3, 21, 32, 34, 43, 45, 56, 58, 69

Homework #5

Ch.5.1: 4, 7, 11, 22, 25, 27, 33, 40, 51 (extra credit), 53 (extra credit)

Ch.5.2: 1, 4, 8, 14, 22, 27

Ch.5.3: 6, 8, 11, 20, 22, 28, 34, 40

Ch.5.4: 2, 3, 7, 13, 17, 35, 36

Homework #6

(in all exercises, graphs not necessary)

Ch.5.5: 3, 4, 8, 22, 24, 34, 40, 45, 50, 56, 58

Ch.5.6: 2, 4, 8, 12, 20, 25, 26 (extra credit), 29 (extra credit)

Ch.7.1: 4, 6, 8, 14, 18, 28

Ch.7.2: 1, 4, 6, 8, 16, 18, 25, 33

Ch.7.3: 4, 6, 8, 12, 18, 22, 24, 32, 38, 42

Homework #7

(in all exercises, graphs not necessary)

Ch.7.5: 2, 4, 8, 16, 24, 26, 28, 33, 34, 38, 40, 42

Ch.8.1: 2, 4, 6, 11, 14, 22, 32, 35

Ch.8.2: 1, 4, 9, 18, 24, 26

Homework #8

Ch.10.1: 1, 3, 6, 10, 13, 16, 18, 20, 25, 28, 30, 36

Ch.10.2: 4, 10, 12, 14, 18, 22, 26, 28, 32

Ch.10.3: 2, 3, 6, 8, 14, 17, 23, 36, 38

Ch.10.4: 2, 10, 11, 16, 19, 26, 32