HW 1, Due Week 2
1.1: 1, 4, 5, 6, 9, 15, 19, 27, 29, 30, 32, 33, 34 Reading. Required background. Nothing graded from 1.1.
1.2: 1, 2, 4, 5, 6, 7, 9, 10, 13, 15, 16, 18, 21, 22, 24, 26, 29, 31, 32, 33, 35, 40, 41
1.3: 2, 3, 5, 6, 8, 10, 11, 13, 14, 23, 25, 26, 33
1.4: 2, 3, 4, 6, 9, 12, 13, 18, 19, 20, 21, 22, 26, 36, 41, 42, 45, 46, 49, 51, 56, 59

Print Exercise 1.3-8 image at 200% from here:

http://www.math.utah.edu/ gustafso/exercise1.3-8-EdwardsPenney.jpg All homework listed in one file Here.

HW 2, Due Week 3
1.5: 1, 7, 8, 10, 13, 18, 20, 21, 23, 24, 33,
34, 36, 39
3.7: 1, 2, 4, 7 [LC and RC circuits, LRC after 3.6]
2.1: 1, 3, 4, 6, 8, 10, 12, 16, 22, 23, 33, 37
2.2: 5, 7, 8, 9, 10, 11, 15, 17, 18
2.3: 2, 3, 9, 10, 13, 14, 17, 18, 19, 20, 22, 24, 25
Computer Lab 1, Due Week 5:

http://www.math.utah.edu/ gustafso/s2016/2280/2280
mapleL1-intro-S2016.pdf All homework listed in one file Here.

HW 3, Due Week 4
No exercises due, only the computer Numerical DE Project (below), which uses the statements from exercises 2.4-6, 2.5-6, 2.6-6.
2.4: 2, 3, 4, 6, 10, 12, 17 Euler's method
2.5: 3, 4, 5, 6, 10, 12 Improved Euler or Heun
2.6: 3, 4, 5, 6, 10, 12 Runge-Kutta, RK4

http://www.math.utah.edu/ gustafso/s2016/2280/numerical DE
project-S2016.pdf All homework listed in one file Here. HW 4, Due Week 5 3.1: 1, 6, 10, 27, 33, 34, 36, 37, 38, 39, 40, 41, 42, 43, 46, 48, 53 3.2: 1, 2, 5, 8, 11,13, 16, 18, 19, 20, 21, 22, 23, 25, 26 3.3: 3, 7, 8, 9, 10, 11, 16, 17, 23, 27, 31, 32, 37, 40 3.4: 3, 4, 5, 6, 10, 11, 15, 17, 19, 20, 21, 33, 34

HW 5, Due Week 6
3.5: 2, 3, 5, 6, 10, 11, 12, 19, 21, 22, 25, 27, 29, 31, 34, 39, 43, 45, 47, 51, 52, 54, 57, 58, 59
3.6: 3, 4, 5, 7, 8, 9, 11, 13, 15, 17, 18, 20, 21, 22
3.7: 1, 2, 4, 7, 12, 15, 18, 19 [LRC circuits]

Computer Lab 2, Newton Cooling, Due Week 6. Choose one project. http://www.math.utah.edu/ gustafso/s2016/2280/2280mapleL2-freezing-pipes-S2016.pdf http://www.math.utah.edu/ gustafso/s2016/2280/2280mapleL2-swamp-cooler-S2016.pdf All homework listed in one file Here. HW 6, Due Week 7 7.1: 1, 3, 7, 9, 11, 13, 17, 18, 19, 22, 23, 27, 28, 29, 31, 40 7.2: 3, 7, 9, 10, 15, 16, 17, 19, 20, 21, 23, 24, 35, 37 7.3: 3, 6, 7, 9, 12, 13, 17, 18, 20, 23, 27, 28, 29, 30, 32, 34, 37

HW 7, Due Week 8 7.4: 2, 3, 9, 13, 15, 17, 22, 23, 26, 27, 29, 30, 36, 37 7.5: 3, 4, 7, 9, 11, 13, 14, 21, 22, 25, 27, 28, 31, 33, 34, 37

HW 8, Due Week 9
7.6: 2, 5, 6, 7, 8, 11, 12, 18, 21, 22 [impulses and Laplace]
4.1: 1, 3, 2, 5, 7, 8, 11, 12, 15, 17, 20, 21, 24, 26
4.2: 7, 12, 27; A Laplace or Cayley-Hamilton-Ziebur solution is acceptable.
4.3: 7, 9, 21;

See RK4 for systems http://www.math.utah.edu/ gustafso/s2016/2280/numericalVectorMethods.pdf For Exercise 4.3-9 and similar computer problems, see all files numerical-4.3* in the directory http://www.math.utah.edu/ gustafso/s2016/2280/maple/

HW 9, Due Week 11 after Spring Break (Week 10, no classes) 5.1: 16, 17, 20, 22, 24, 25, 28

Computer Lab 3, Laplace:

http://www.math.utah.edu/ gustafso/s2016/2280/2280
mapleL3-laplace-S2016.pdf All homework listed in one file Here.

HW 10 does not exist. Spring Break. No Quiz 10. No Lab 10.

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HW 11, due Week 12
 5.2: 8, 11, 13, 20, 21, 27, 29, 30, 31, 35, 39, 43, 45, 49
 5.3 [5.4 in edition 5/E]: 6, 9, 13, 19, 24, 27
 5.4 [5.5 in edition 5/E]: 1, 7, \boxed{11} , \boxed{29}
 5.5 [5.6 in edition 5/E]: 1, 3, 4, 11, 12, 23,
                                                     38
 Edition 5/E problems are identical in matching sections:
   Edition 4/E
                        Edition 5/E
   5.1
                        5.1
   5.2
                        5.2
   5.3
                        5.4 [a new 5.3 was inserted]
   5.4
                        5.5
   5.5
                        5.6
   5.6
                        5.7
 We don't do the 5/E section 5.3 problems.
 The material in 5/E section 5.3 is a reference
 for Chapter 6 in both 4/E and 5/E.
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HW 12, due Week 13
5.6 [5.7 in edition 5/E]: 1, 13, 15, 19, 23
6.1: 3, 4, 5, 7, 8, 11, 15, 17, 18
6.2: 2, 5, 7, 9, 12, 13, 17, 19, 21, 22, 23, 29
6.3: 5, 7, 8, 9, 10, 11, 18, 19

HW 13, due Week 14 6.4: 1, 3, 4, 8, 9, 10, 11, 13, 14 6.5: Not covered in class, nothing due. Computer Lab 4, Resonance:

http://www.math.utah.edu/ gustafso/s2016/2280/2280
mapleL4-resonance-S2016.pdf All homework listed in one file Here.

HW 14, due Week 15 9.1: 6, 7, 10, 13, 15, 17, 20, 24, 30 9.2: 2, 8, 9, 20 9.3: 1, 4, 9, 17, 20 9.4: 1, 7, 9, 13

HW 15, due by 6pm Tuesday May 3 under the door JWB 113 9.5: 1, 2, 3, 7, 9 9.6: 1, 5