HW 1, Due Week 2
1.1: 1, 4, 5, 6, 9, 15, 19, 27, 29, 30, 32, 33, 34
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/s2018/2280/images/exercise1.3-8-EdwardsPenney.jpg

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
 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
The source and instructions for this project can be found here:

http://www.math.utah.edu/~gustafso/s2018/2280/homework/numericalDEproject/numericalDEproject-S2018.pdf

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
Computer Lab 1, Due Week 5:

http://www.math.utah.edu/~gustafso/s2018/2280/maple/lab1/2280mapleL1-intro-S2018.pdf

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]
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
Computer Lab 2, Newton Cooling, Due Week 7. Choose one
project.

http://www.math.utah.edu/~gustafso/s2018/2280/maple/lab2/2280mapleL2-freezing-pipes-S2018.pdf
http://www.math.utah.edu/~gustafso/s2018/2280/maple/lab2/2280mapleL2-swamp-cooler-S2018.pdf

 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
Computer Lab 3, Laplace. Due Week 8.:

http://www.math.utah.edu/~gustafso/s2018/2280/maple/lab3/2280mapleL3-laplace-S2018.pdf

 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;
RK4 for systems is found here:

For Exercise 4.3-9 and similar computer problems, see all files numerical-4.3* in the directory

HW 9, Due Week 10 before Spring Break (Week 11, no classes)
5.1: ⟨16⟩, 17, ⟨20⟩, ⟨22⟩, ⟨24⟩, 25, ⟨28⟩
HW 10, due Week 12, after Spring Break
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, ⟨11⟩ , ⟨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.
HW 11 does not exist. Spring Break.
No Quiz 11. No Lab 11.
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 5, Brine Tank, Due Week 14:

 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 on May 7 under the door JWB 113
9.5: 1, 2, ⟨3⟩, ⟨7⟩, ⟨9⟩
9.6: 1, ⟨5⟩
Extra Credit Computer Labs 6 and 7, Due May 7: