

All problem numbers are according to “Chapra, S. C. and Canale, R. P., *Numerical Methods for Engineers*”, Seventh Edition, 2015, McGraw Hill.”

Chapter 4

Problems: 4.5 and 4.6

Chapter 5

Problems: 5.1, 5.2, 5.4, 5.5, 5.7, 5.9, 5.13, 5.14, 5.15, 5.17, and 5.21

Chapter 6

6.1, 6.2, 6.5, 6.7, 6.9, 6.10, 6.12, 6.14, 6.19, and 6.21

Chapter 9

9.1, 9.2, 9.8, 9.10, 9.11, 9.12, and 9.19

Chapter 10

10.2, 10.3, 10.4, 10.9 and 10.10

Chapter 21

21.1 to 21.3, 21.09 to 21.14

Chapter 23

23.1 to 23.3, 23.8 and 23.9

Chapter 25

25.1 to 25.7, and 25.16

Chapter 27

27.2 to 27.5 (Δx is the same as h or the "step size").

Chapter 29

Example 29.3 and resolve this example if both left and bottom edges are insulated.

Section 12.3 (textbook 2) - *Numerical Analysis by Burden and Faires (9th edition)*

Problems 1 and 3.

Chapter 30

Problems: 30.1, 30.2, 30.4, 30.5, 30.6 and 30.15