## Available Instructor Resources

## Instructional Resources

- Lecture Notes PPT: Jared Eusea of River Parishes Community College.

- Learning Objectives: Robert Weston.
- Textbook Image PPT: Including all images from the textbook, organized by Chapter.
- Instructor Solution Manual: Instructor-facing answers to the problems and exercises within the textbook. Please do not publicize it to students.


## Algorithmic Questions

- Below is a partial list of available algorithmic questions. Each question has multiple versions, detailed solutions, hints, and linked textbook content for objectives and prerequisites.
- You may request any questions not listed here or submit your own questions. We add new algorithmic questions weekly.
- eMath can also provide you customized solutions to fit your instruction.


## Section

## Questions in the Textbook

| 1.1 | $1,4,5,6,8,9,10,11,12,13,14,15,16,17,18,19,20,21,24,25,26,27,28$, $29,30,31,34,35,36,38,41,42,43,44,45,47,48,50,51,52,53,54,56$ |
| :---: | :---: |
| 1.2 | $\begin{aligned} & 5,6,7,8,9,10,11,12,13,14,15,16,19,20,21,22,23,24,25,26,27,28,29 \\ & 31,33,35,36,39,41,43 \end{aligned}$ |
| 1.3 | $\begin{aligned} & 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,27,29 \text {, } \\ & 30,31,33,35,37,39,41,43,44,45,47,49,51,53,55,57,59,61,62 \end{aligned}$ |
| 1.4 | $\begin{aligned} & 5,6,7,8,9,10,11,12,13,15,17,19,21,23,24,25,26,2731,33,35,37,39 \\ & 41,43,45,46,47,50,51,52 \end{aligned}$ |
| 1.5 | $\begin{aligned} & 4,6,7,9,10,11,13,15,17,19,21,23,25,27,29,30,31,33,35,37,38,39,41 \\ & 43,45,47,49 \end{aligned}$ |
| 1.6 | $\begin{aligned} & 4,5,6,8,9,11,13,14,15,17,19,21,23,25,27,29,31,33,35,37,39,41,42 \\ & 45,47,50 \end{aligned}$ |
| Chapter 1 | $1,2,3,4,7,8,9,10,11,12,13,14,15,17,18,19,20,21,22,23,24,25,26,27$, |
| Review | $\begin{aligned} & 28,29,30,31,32,33,34,35,36,37,38,39,42,43,44,45,46,48,49,50,51 \\ & 52,53,54,55,56,57,58,59,60,61,63,64,65,67,68,70 \end{aligned}$ |
| 2.1 | $5,7,9,11,13,15,17-20,22-26,30,31,32,34,35,36,38,39,41,42$ |


| 2.2 | $\begin{aligned} & 6,7,8,9,10,11,13,14,15,16,17,18,19,20,21,22-29,30-35,36,37,39,40- \\ & 44,45 \end{aligned}$ |
| :---: | :---: |
| 2.3 | $6,7,8,9-12,13-16,17-18,19,20,21,22,23,24-27,32-54$ |
| 2.4 | 11-14, 15-41, 47, 49, 51, 53, 55, 56, 42-44 |
| 2.5 | 6-17, 19-24, 25-31, 32-37, 38-43 |
| 2.6 | 6-12, 13-19, 20-28, 29-36, 37-41 |
| 2.7 | 6-14, 5-23, 24-27, 28-32, 33-37, 43-46, 47-50, 51-53, 59-62 |
| Chapter 2 <br> Review | $\begin{aligned} & 1,2,3,4,5,6,8,9,10,11,12-16,17,18,19-22,26,27,30-39,40-43,44,45,46 \text {, } \\ & 47,48,49,50,51,52-59,60-65,66,67,68,69 \end{aligned}$ |
| 3.1 | $6,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,25,27-31,32,33$, $34-39,41,43,45,47,49,51,52,53,54,55,56,57,60-62,63-65,66-67,68,69$, 70, 71, 72, 73, 74 |
| 3.2 | 6-25, 27-37, 38-45, 46-48, 49-51, 52-54, 60, 61 |
| 3.3 | 18-20, 22-23, 24-25 |
| 3.4 | $\begin{aligned} & 5-10,11,12-17,18-19,20,21,22,23,24,25,26-41,51,53,55,57,58-65,66-71 \text {, } \\ & 76-79,80-83,87-88 \end{aligned}$ |
| 3.5 | $6-9,10-19,20-23,24-26,41-42,43-46,47,49,51,53,55,57,59,61,63-68$ |
| 3.6 | 16-18, 19-31 |
| 3.7 | 7-12, 17-18, 23-24, 37-40 |
| Chapter 3 <br> Review | $\begin{aligned} & 1,2,5-6,7-8,9-11,12-13,18-19,20-23,27-31,32-33,34-38,39,41,43,45-49 \\ & 52,57-59,60-62,66-68,69-70,75-76 \end{aligned}$ |
| 4.1 | 14-23, 24-28, 31-36, 37-40, 41-46, 52-55, 56-57, 58-63, 70-75, 76-84, 85-88, 8996 |
| 4.2 | 9-10, 11-12 |
| 4.3 | 8-11, 12 |

Chapter 4 1, 2, 3, 4, 5,6, 7, 8, 9, 10, 11,13, 14, 15, 16, 19, 20, 21, 22
\& Review
5.1

6-13, 14-20, 21-25, 26-33, 34-39, 40-45
$5.2 \quad 12-16,17-24,25-30,31-38,39-45$
5.3 6-23, 24-29, 30-41, 42-47, 48-52, 53-56, 57-66
$5.4 \quad 3-13,14-37,38-43,49-53$
$5.5 \quad 5-13,14-21,22-39,46-55,56-60$
5.6 6-9, 10-19, 20-24, 30-34, 39-50, 51-56
5.7 5-11, 12-15, 16-30, 31-40, 41-45
$5.8 \quad 4,10,11,14,24,29$
Chapter $5 \quad 1,2,3,4,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21-24,25-28,29,30$, \& Review 31-34, 35, 36, 37-42

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| :---: | :---: |
| 6.1 | 31-33, 34, 37, 42, 44-50 |
| 6.2 | 8-10, 23-25, 26-28, 29-31, 32-37, 38-40, 43-45 |
| 6.3 | 6-15, 16-25, 26-35, 36-41, 42-45, 46-49, 50-53 |
| 6.4 | 6-10, 11-15, 16-20, 21-25, 33-35, 36-39, 43-48, 49-52 |
| 6.5 | $3-8,9-14,15,16,20-23,25,30-32$ |
| 6.6 | $4-8,11-28,29,30,31-35,36-43,44-50$ |
| 6.7 |  |
| 6.8 |  |
| Chapter 6 <br> Review | $\begin{aligned} & 9,12,13,14,15,16,18,19,21,25,26,27,28,29,30,31,32,36,42,43,44,45 \\ & 46,47,48,49,52,53 \end{aligned}$ |
| 7.1 | 6-10, 11-20, 21-30, 31-40, 41-45, 61, 62, 67, 69 |
| 7.2 | 11-45 |
| 7.3 | 6-10, 11-14, 16-23, 24-38 |
| 7.4 | 6-19, 20-28 |
| 7.5 | 6-11, 12-17, 18-23, 24-29, 30-40, 41-49, 50-54 |
| 7.6 | 6-10, 11-15, 16-46 |
| 7.7 | 6-12, 13-26, 35-42 |
| 7.8 | None |
| Chapter 7 | $1,2,3,4,5,6,7,8,11-18,21-25,31-37,51,53-55,59,60,61-64,67,68,71-73$, |
| Review | 75,78 |
| 8.1 | 7, 8, 9, 11-19, 27, 28, 29, 32-38 |
| 8.2 | 11-18, 26, 27, 28, 31-37, 45, 46, 47, 51, 55 |
| 8.3 | 11-30, 31-35, |
| 8.4 | None |
| 8.5 | None |
| Chapter 8 Review | $5,6,12,13,16,17,26,27,30$ |
| 9.1 | 34, 35, 37, 38, 39, 41, 42 |
| 9.2 | $6,7,8,9,14-18,24,25$ 43-52 |
| 9.3 | $6-8,9,11,13,18,19,20,21$ |
| 9.4 | 30, 31, 34, 35, 36, 38, 39, 40 |
| 9.5 | 15-24, 25-27, 30-32 |
| 9.6 | 5-12, |
| 9.7 | 14-17, 27, 28 |
| Chapter 9 | $2,5,6,8,11,13,14,16,19,35,37,39,41,43,46,48-53$ |
| Review |  |


| Section | Sample Assignment | Question Numbers in the Textbook |
| :---: | :---: | :---: |
| 1.1 | Homework | $4,7,14,19,20,30,40,41,43,51,53,54,56$ |
|  | Quiz | 7, 10, 13, 31, $32,38,44,51$ |
| 1.2 | Homework | $7,8,11,12,13,19,23,25,26,27,31,33,36,40,43,50$ |
|  | Quiz | 14, 21, 24, 28, 33, 40 |
| 1.3 | Homework | 7, 8, 14, 20, 23, 29, 33, 35, 37, 40, 46, 47, 49, 56, 60 |
|  | Quiz | $11,12,19,28,32,42,44,52,53,54$ |
| 1.4 | Homework | 13, 14, 20, 22, 25, 27, 32, 35, 40, 42 |
|  | Quiz | 15, 16, 17, 23, 24, 30, 31, 36, 41, 44 |
| 1.5 | Homework | 5, 6, 9, 10, 13, 16, 19, 25, 26, 34, 39, 40 |
|  | Quiz | 7, 8, 11, 15, 17, 21, 24, 27, 37, 41 |
| 1.6 | Homework | 4, 9, 17, 21, 24, 32, 33, 35, 37, 47 |
|  | Quiz | $5,10,14,18,25,26,34,38,39,46$ |
| Chapter 1 Test | Page 70-71 | $14,15,16,17,18,19,20,21,22,23$ |
|  | Page 72 | $4,6,7,8,12,14,15,19,21,22,23$ |
| Chapter 2 Test | Page 158 | $2,9,15,16,17,23$ |
|  | Page 155-157 | 6, 8, 19, 20, 21, 27, 31, 32, 33, 34, 38, 45, 52, 59 |
| 2.4 | Homework | 29, 30, 33, 35, 49, 56 |
|  | Quiz | 28, 32 |
|  |  | 11, 12, 13, 14, 38, 41 |
| 2.6 | Homework | $7,9,14,18,20,22,24,26,30,33,35,37$ |
|  | Quiz | $6,10,13,15,21,25,27,34,36,40$ |
| 2.7 | Homework | $7,10,13,15,20,21,22,24,28,31,43,46,47,50,52$ |
|  | Quiz | 11, 14, 17, 18, 27, 30, 44, 48, 49, 51 |
| 3.1 | Homework | $8,10,12,15,19,28,34,38,42,46,51,54,56,57,66,67,69,71,73,75$ |
|  | Quiz | 9, 11, 17, 22, 27, 35, 37, 41, 48, 52, 58, 61, 62, 64, 65, 70, 72 |


| 3.2 | Homework Quiz | $\begin{aligned} & 7,8,13,15,16,17,22,27,29,32,34,36,39,42,47,49,54 \\ & 10,18,24,25,33,37,44,46,50,52 \end{aligned}$ |
| :---: | :---: | :---: |
| 3.4 | Homework Quiz | $\begin{aligned} & 6,7,10,11 \mathrm{~A}, 11 \mathrm{E}, 12,13,17,19,20,24,26,29,35,42,44,45,47,52,54, \\ & 56,58,61,64,66,68,70,72,74,77 \\ & 5,8,16,18,23,27,28,41,43,51,57,59,60,67,71,73 \end{aligned}$ |
| 3.6 | Homework Quiz | $\begin{aligned} & 9,10,14,16,17,18,23,26,27 \\ & 11,13,15,24,25,28 \end{aligned}$ |
| Chapter 3 Test | Page 156-157 <br> Page 272 <br> Page 277 | $\begin{aligned} & 38,48,52,55,56,66 \\ & 2,10,15,16,21,35,36,43,52,65 \\ & 7,8 \end{aligned}$ |
| 5.1 | Homework Quiz | $\begin{aligned} & 6,10,15,20,22,25,27,33,42,43 \\ & 7,12,16,17,21,24,32,45 \end{aligned}$ |
| 5.2 | Homework Quiz | $\begin{aligned} & 9,11,13,15,18,19,22,24,26,27,32,34,36,39,41,44 \\ & 7,10,14,16,20,21,23,25,29,30,33,37,40,43 \end{aligned}$ |
| 5.3 | Homework Quiz | $\begin{aligned} & 7,8,10,14,15,23,24,27,30,35,36,38,50,52,55,56,57,59,61,5 \\ & 9,16,18,25,26,37,41,51,53,62,64,66 \end{aligned}$ |
| 5.4 | Homework Quiz | $\begin{aligned} & 3,5,6,9,12 \\ & 4,7,10,11,13 \\ & 3-43 \text { All } \end{aligned}$ |
| 6.1 |  | 44, 45, 46, 47 |
| 6.2 |  | 23, 25, 26, 27, 28, 29, 30, 31, 43 |
| 6.3 |  | $6-41,42-44,46-48,50,51,53$ |
| 6.4 |  | 6-20, 43-48, 49-52 |
| 6.5 |  | $9,11,20,21,23,30,31,32$ |
| 6.6 |  | $4,5,6,8,10,12,13,14,26,29,30,31,32,33,36,38,44,46,50$ |
| 6.7 |  | 28, 31, 32, 33 |


| 6.8 | none |
| :---: | :---: |
| Chapter 6 Review | $\begin{aligned} & 2,5,6,7,8,9,12,13,14,15,16,17,18,19,21,23,25,29,30,32,40,42 \text {, } \\ & 43,44,45,46,51,54,55 \end{aligned}$ |
| 7.1 | 6-40, 56, 61, 62, 74 |
| 7.2 | 6-45, 51, 52 |
| 7.3 | 6-14, 24-31, 33-35, 39, 40, 41-45 |
| 7.4 | none |
| 7.5 | 6-11, 12-17, 18-23, 24-29, 30-36, 41-49 |
| 7.6 | 6-46 |
| 7.7 | 13-42 |
| 7.8 | none |
| Chapter 7 <br> Review | $1,2,3,4,5,6,7,8,11-18,26,39-50,53-60,61-64$ |
| 8.1 | 6-10, 11-26, 27-31, 32-45, 46-51 |
| 8.2 | 6-10, 11-25, 26-30, 31-44, 45-50 |
| 8.3 | none |
| 8.4 | none |
| 8.5 | none |
| Chapter 8 Review | $1,2,3,4,5,6,7,8,9,10,12,13,14,15,16,17,18,19,20,21$ |
| 9.1 | $21,22,23,26,27,34,35,36,37,38,39-42$ |
| 9.2 | 6, 7, 8, 9, 14-25, 28-40, 43-52 |
| 9.3 | 6-13, 16-21, 24-31, 34-45 |

9.4
9.5
$9.6 \quad 5-19$
9.7

14-17, 18-25, 26-32, 33-42, 47-50

Chapter 9
$1,2,3,4,5,6,7,8,9,10,11,12,13-20,35,37,39,43,44,46,47-53$
Review

