



Reading a calculus textbook is different from reading a newspaper or a novel. Do not be discouraged you have to read a passage more than once in order to understand it. You should have pencil, paper, calculator on hand to sketch a diagram or make a calculation.

Some students start by trying their homework problems and read the text only if they get stuck on an exercise. I suggest that a far better plan is to read and understand a section of the text before attempting the exercises. In particular, you should look at the definitions to see the exact meanings of the terms. Learn to write the solutions of the exercises in a connected, step-by-step fashion with explanatory sentences – not just a string of disconnected equations or formulas.

The following rules apply to your homework:

- Problems should be written out in consecutive order. They need to be easy to locate.
- Space your work out so it is easy to read. (Paper is an inexpensive, renewable resource!)
- Multiple pages must be stapled and tatty edges need to be trimmed.
- Either one or two columns per page, clearly delimited.
- Homework that is illegible or sloppy will not be graded.
- Proofs must be rigorous and clearly written in appropriate mathematical format. No proof, no credit given.
- All graphs must be done in pencil, with axes and points clearly labeled.
- Late homework will not be accepted for any reason.
- You are encouraged to discuss assignments with your classmates; however, you are required to write up your work independently. Copied homework will not be tolerated and identical, or nearly identical, assignments will *share* a single homework score.

<p>Chapter 6</p>	<p>Section 6.1 - Study Examples 1, 2, 4 – 10 - Do the following exercises: 3, 8, 12, 15, 18, 22, 25, 30, 31, 37, 40, 45, 48, 49, 52</p> <p>Section 6.2 - Study Examples 2, 3 - Do the following exercises: 1, 4, 7, 10, 23 (c, e), 28 (a, c), 29, 36</p> <p>Section 6.3 – Study Examples 1 – 5 - Do the following exercises: 1, 4, 7, 10, 19, 21, 24, 25, 27</p> <p>Section 6.4 – Study Examples 1,2 - Do the following exercises: 10, 11, 13, 16, 20, 27, 29, 30</p> <p>Section 6.5 – Study Examples 1 – 6 - Do the following exercises: 1, 4, 9, 14 a, b, c, 17, 36, 37, 43, 44</p> <p>Section 6.6 – Study Examples 3, 6, 7, 8 - Do the following exercises: 2, 5, 7, 12, 15, 18, 29, 30</p>
<p>Chapter 7</p>	<p>Section 7.3 – Study Examples 1, 2, 3 - Derive the formulas for the derivatives of all hyperbolic functions. - Derive the formulas for the derivatives of all inverse hyperbolic functions.</p> <p>Do the following exercises: 2, 7, 14, 51, 61, 67</p>

<p>Chapter 8</p>	<p>Section 8.1 – Study Examples 1 – 6 - Do the following exercises: 13, 22, 27, 29, 30, 32, 35, 42, 49, 56, 62, 63, 67, 68</p> <p>Section 8.2 – Study Examples 1 – 7 - Do the following exercises: 2, 7, 12, 13, 18, 21, 24, 25, 27, 30, 31, 33, 36, 39, 43, 46, 51, 54, 57, 60, 62, 63, 66, 67, 69, 71, 72, 74</p> <p>Section 8.3 – Study Examples 1 – 3 - Do the following exercises: 1, 4, 5, 8, 9, 11, 14 – 17, 19, 21, 23, 28, 29, 31, 35, 38, 41, 44, 47, 49, 53, 56, 57</p> <p>Section 8.4 – Study Examples 1 – 5, 8, 9 - Do the following exercises: 9 – 48 every third (9, 12, 15, 18, etc), 49, 51, 53, 55</p> <p>Section 8.5 – Study Examples 1 – 4 - Do the following exercises: 1, 5, 15, 25, 35, 45, 55</p> <p>Section 8.6 – Study Examples 1 – 6 - Do the following exercises: 3 (using the Trapezoidal Rule), 7 (using Simpson’s Rule), 19, 21, 25</p> <p>Section 8.7 – Study Examples 1 – 9 - Do the following exercises: 3, 6, 9, 12, 15, 18, 21, 24, 35, 38, 42, 43, 47, 50, 53, 65, 67, 69, 70, 71</p>
<p>Chapter 11</p>	<p>Section 11.1 – Study Examples 1 – 7 - Do the following exercises: 1, 4, 7, 10, 13, 16, 19b,d, 201, b, 21, 24, 27, 29, 31, 32, 33, 35, 39, 40</p> <p>Section 11.2 – Study Examples 1 – 5 Do the following exercises: 6, 9, 14, 15, 18, 21, 23, 25, 28, 31, 34, 43, 44, 47</p> <p>Section 11.3 – Study Examples 1 – 6 - Do the following exercises: 3, 4, 6a,d,f,g, 8a, d, 9c,d,15, 16, 21, 22, 27, 33, 34, 35, 36, 40, 41, 49, 52, 53, 56, 57, 60, 63, 65</p> <p>Section 11.4 – Study Examples 1 – 3 - Do the following exercises: 1, 6, 7, 13, 17, 20, 21a, 23b, 25, 26</p> <p>Section 11.5 – Study Examples 1 – 3 - Do the following exercises: 1, 2, 10, 13, 17, 18, 19, 21, 24, 25, 28</p>

<p>Chapter 10</p>	<p>Section 10.1 – Study Examples 7, 8, 9 - Do the following exercises: 5, 6, 9, 12, 27, 28, 25, 26, 43, 45, 47, 49, 52, 53, 56, 59, 63, 66, 69, 78, 80, 87, 89, 91, 97, 111, 114, 115, 117, 118, 121</p> <p>Section 10.2 – Study Examples 1 – 10 - Do the following exercises: 1, 4, 5, 10, 13, 22, 25, 27, 29, 30, 32, 35, 38, 41, 44, 47, 49, 50, 54, 55, 56, 59, 62, 67, 69, 71, 73, 77, 86, 87, 88, 90, 91, 93</p> <p>Section 10.3 – Study Examples 3, 4, 5 - Do the following exercises: 3, 6, 7, 9, 11, 14, 15, 22, 27, 30, 31, 34, 35, 38, 44, 49, 51, 55, 56</p> <p>Section 10.4 – Study Examples 1, 2, 3 - Do the following exercises: 1, 4, 5, 9, 10, 11, 14, 17 – 53 (all odd)</p> <p>Section 10.5 – Study Examples 1, 2, 3, - Do the following exercises: 1 – 15 (all odd), 17, 20, 23, 26, 30, 33, 35, 36, 37, 39, 42, 43, 46, 47, 49, 51, 56, 57, 61</p> <p>Section 10.6 – Study Examples 2 – 5 - Do the following exercises: 1, 7, 11, 15, 17, 23, 25, 27, 29, 31, 35, 37, 41, 47, 49, 51, 53</p> <p>Section 10.7 – Study Examples 1 – 6 - Do the following exercises: 3, 6, 9, 16, 33, 34, 49, 50, 51, 53</p> <p>Section 10.8 – Study Examples 1 – 3 - Do the following exercises: 1, 4, 7, 10, 11, 12, 13, 16, 17, 21, 22, 27, 30, 32, 33 – 36</p> <p>Section 10.9 – Study Examples 4, 5 - Do the following exercises: 1, 3, 5, 7, 11, 13, 19, 23, 29, 31, 33, 35, 37</p> <p>Section 10.10 – Study Examples 1 – 7 - Do the following exercises: 1, 3, 5, 11, 13, 15, 17, 19, 21, 23</p>
<p>Chapter 12</p>	<p>Section 12.1 – Study Examples 1 – 5 - Do the following exercises: 1, 4, 7, 10, 13, 16, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 47, 55, 57, 59, 60, 63</p> <p>Section 12.2 – Study Examples 1 – 9 - Do the following exercises: 1, 3, 5, 9, 11, 14, 17, 20, 21, 26, 29, 33, 34, 37, 39, 41, 43, 45, 47</p> <p>Section 12.3 – Study Examples 1 – 7 - Do the following exercises: 1, 5, 9, 11, 13, 35, 39, 41, 43, 45</p> <p>Section 12.4 – Study Examples 1 – 6 - Do the following exercises: 1, 5, 9, 13, 17, 19, 23, 29, 35</p> <p>Section 12.5 – Study Examples 1 – 12 - Do the following exercises: 1, 3, 5, 7, 9, 13, 17, 21, 23, 25, 27, 29, 31, 33, 35, 39, 41, 45, 47, 53, 55, 57, 59, 61</p>