

**Textbook:** “Thomas’ Calculus: Early Transcendentals”, 12th edition, Addison Wesley

*Note: Many exercises have answers in the back of the book. An answer without supporting work is worth no credit unless, of course, no work is required such as in, for example, problem 6 on p. 681. Saying that you did the calculation in your head is not sufficient.*

**Modifications to this syllabus will be made as the semester progresses.**

## Sections Problems

### Week 1 Due 1\12

- 12.1 6, 10, 33, 34, 50, 58  
 12.2 12, 16, 20, 26, 33  
 12.3 4, 6, 10, 30,

### Week 2 Due 1\24

- 12.1 11, 18, 56  
 12.2 14, 28, 34, 35  
 12.3 17, 43, 44  
 (Hint: In 17, expand  $(v_1 + v_2) \cdot (v_1 - v_2)$  algebraically.)  
 12.4 1, 3, 6, 16  
 12.5 2, 5, 6, 10, 17, 23, 27, 35, 39, 53, 57

### Week 3 Due 1\31

- 12.4 17, 31, 33, 34  
 12.5 36, 41, 59  
 Additional Exercise: Solve exercise 36 using the dot product  
 12.6 1, 3, 5, 9, 54, 55, 56, 57, 58

- 13.1 2, 5, 11, 18, 19  
 13.2 3  
 13.3 2, 9, 18, 19

### Week 4 Due 2\7

- 13.1 3, 4, 7, 17, 20  
 13.2 6  
 13.3 6, 10  
 13.4 3, 4, 5, 7a, 7b, 8, 11, 13, 17, 18  
 13.5 1, 3, 5, 11, 13, 21

### Week 5 Due 2\14, Test 1, Tues. 2\9 in class. Covers Ch. 12,13, excluding 13.6

- 14.1 22, 27, 31-33, 40, 50, 61  
 14.2 6, 14, 26, 36a, 41, 43, 70

### Week 6 Due 2\21,

- 14.1 24, 34-36, 44, 46, 51, 62  
 14.2 38a, 48, 60, 73  
 14.3 6, 7, 35, 42  
 14.4 4, 7, 27, 35

<b>Sections</b>	<b>Problems</b>
<b>Week 7</b>	<b>Due 2\28</b>
14.3	12, 20, 21, 37, 44
14.4	5, 41
14.5	2, 12, 15, 22, 27
14.6	3, 15, 29, 35, 51a
<b>Week 8</b>	<b>Due 3\6</b>
14.4	8, 28, 36, 43, 44
14.5	5, 17, 19, 25
14.6	2, 9, 17, 39, 45, 50
14.7	2, 4, 33
14.8	5, 12, 26, 31
<b>Week 9</b>	<b>Due 3\20</b>
14.7	7, 36, 39, 41
14.8	8, 30, 37
14.9	2, 6, 10, 11

**Spring Break!**

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Sections	Problems
<b>Week 10</b>	<b>Due 3\27, Test 2, Thrs. 3\22 in class. Covers Ch. 14</b>
14.10	3a, 3b, 5a, 5b, 9, 10, 11
15.1	5, 18, 23
<b>Week 11</b>	<b>Due 4\3</b>
15.1	8, 16, 24
15.2	13, 19, 34, 54, 57
15.3	13, 19
15.4	10, 30
15.5	7, 23, 32
<b>Week 12</b>	<b>Due 4\10</b>
15.2	15, 22, 50, 58
15.3	17, 22
15.4	13, 37, 41
15.5	11, 29, 35, 40
15.6	2, 13, 23
15.7	3, 7, 18, 25, 30, 51
<b>Week 13</b>	<b>Due 4\17</b>
15.6	5, 22, 24
15.7	4, 24, 33, 53, 54
15.8	2, 4, 9
16.1	1, 11, 36
16.2	5, 7a, 7b, 21
16.3	3, 6, 8, 14, 20, 34
<b>Week 14</b>	<b>Due 4\24</b>
15.8	3, 7, 12
16.1	8, 16, 34
16.2	6, 7c, 27
16.3	4, 5, 10, 21
16.4	4, 8, 19, 22, 27
16.5	2, 5, 15, 17, 37, 40
16.6	17
<b>Week 15</b>	<b>Due 4\27</b>
16.4	3, 6, 20
16.5	39, 41
16.6	30, 35, 37
16.7	2, 3, 6, 9, 15
16.8	3, 4, 9, 11, 14