

Calculus I

Assignment 1: Due Monday August 22nd

1.1: 1, 4, 6, 7, 10, 18, 22, 25, 32, 39, 41, 49, 55(all), 56(a, b, c, g), 57, 62, 67,

Assignment 2: Due Monday August 29nd

1.1: 71, 72, 74, 77, 79, 80, 81(a, i)

1.2: 2, 3, 7, 8, 9, 10, 11, 113, 15, 19, 20, 21, 23, 26, 29, 30, 36, 37, 39, 41, 43, 44, 45, 51, 54, 55(a), 57, 66, 71(all), 72(all), 76, 78

1.3: 1-6 all, 11, 15, 21, 23, 25, 27, 31, 39, 40

Assignment 3: Due Tuesday September 6th (Monday is a holiday)

1.3: 7-10 (All), 41, 43, 45, 47, 53, 54, 55, 56, 57, 63, 70, 71, 72, 73, 79, 81

1.4: 1-14 (All), 15, 19, 21, 23, 27, 31, 34, 36, 37, -45 odd, 47, 53, 57, 59, 67, 69, 71, 73, 75, 81, 83e, 85, 92-95

2.1: 6, 7, 11, 15, 19

Assignment 4: Due Monday September 12th

2.1: 1-4 all, 21, 31, 31, 31, 31, seriously 31 is a really good problem, 32

2.2: 1, 3, 4, 5, 6, 7, 9, 11, 13, 15, 19, 21, 23, 24, 25, 26, 27, 28-31 all, 36, 37, 43, 45, 46

2.3: 1-16 all, 17, 21, 25, 27, 29, 33, 34, 39, 42, 45, 46, 49, 50, 51, 53, 55, 60, 53, 65, 67, 68, 69, 71, 73, 75, 77, 81, 82, 83, 85, 89

Assignment 5: Due Monday September 19th

2.4: 1-6 all, 8, 9, 15, 17, 19, 21, 23, 25, 29, 31, 33, 35, 37, 39, 41, 43, 44, 45, 47, 49, 53

2.5: 1-8 all, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 39, 41, 43, 45, 47, 49, 50, 51, 53, 55, 57, 59, 61, 64, 65, 71, 73, 75, 81a, 82

2.6: 1-8 all, 9, 35, 10, 36, 11, 37, 12, 38, 13, 15, 17, 18, 19, 20, 23, 27, 28, 29, 30, 31, 32, 33, 34, 39, 41, 43, 47, 48, 49, 50, 52, 57, 59, 63, 65, 71, 73, 75, 77, 79, 84, 85, 87, 97, 95, 96, 97

Assignment 5: Due Monday September 26th

2.7: 1-8 all, 9, 11, 15, 19

Study for the test on September 22th !!!

(One great way to study for a math class is by working problems without using your notes or a calculator)

Assignment 6: Due Monday October 3rd

3.1: 1-6 all, 9, 21, 31, 37, 38, 39, 40, 41, 42, 46, 47, 49, 51, 55, 56, 59, 62, 63

3.2: 1, 2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 20, 21, 25, 29, 33a, 35

3.3: 1, 3, 4, 5, 6, 7, 9, 10, 13, 16, 19, 21, 23, 25, 28, 29, 33, 35, 39, 45, 49, 51, 54, 55, 56, 57, 59, 61, 71

Assignment 7: Due Monday October 10th

3.4: 1, 2, 4, 6, 7, 9, 11, 13, 14, 17, 19, 21, 23, 25, 27, 28, 31, 33, 37, 39, 41, 43, 49, 51, 53, 55, 57, 58, 59, 60, 63, 69, 81, 82*

3.5: 3, 4, 5, 6, 17, 19, 21, 23, 25, 27, 28, 29, 33, 39, 41, 43, 57, 61, 63, 68, 69, 71,

3.5: 7, 9, 13, 50, 51, 54, 76, 77, 81, 82, 83, 84

3.6: 1, 2, 3, 4, 5, 6, 7, 9, 13, 19, 23

3.7: 3, 4, 5, 6, 7, 11, 15, 19, 23, 27, 31, 33, 35, 37, 43, 45, 51, 57, 63, 67, 87, 91

*Study note: In section 3.4 we're skipping the derivative of e^{kx} for now. We'll do that when we get to section 3.7.

Assignment 8: Due Monday October 17th

3.8: 2, 3, 5, 9, 13, 17, 21, 25, 27, 31, 35, 37, 41, 45, 48, 52, 55, 59, 73, 77

3.9: 2, 3, 9, 11, 21, 25, 29, 31, 37, 43, 55, 59, 70, 73, 97

3.11: 5, 6, 7, 8, 9, 13, 17, 23

**Note that several problems from 3.9, as well as 3.10 have been shifted to after fall break. This is because related rates (3.11) are some of the hardest problems we'll face in this course, and I so I wanted to start this section before fall break in case you want the extra time to practice.

Assignment 9: Due Monday October 24th

3.9: 45, 47, 49, 50, 53, 63, 67

3.10: 1, 2, 3, 7, 8, 13, 19, 22, 25, 31, 35, 37, 38

3.11: 15, 21, 25, 28, 29, 34, 35, 37, 39, 41, 47, 55

4.1: 11, 12, 13, 15, 16, 17

Assignment 10: Due Monday October 31st

4.1: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 14, 18, 19, 23, 25, 28, 29, 33, 37, 39, 43, 47, 51, 52, 53, 54, 57, 61, 71, 76

4.2: 2, 6, 7, 8, 9, 11, 12, 13, 14, 15, 17, 21, 27, 39, 43, 49, 53, 54, 57, 67, 71, 79, 85, 87

Study for the test on October 27th!!!

Assignment 10: Due Monday November 7th

4.3: 9, 11, 15, 17, 18, 19, 21, 23, 27, 31, 45, 47

4.4: 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 35, 37

4.5: 7, 9, 11, 13, 14, 15, 16, 17, 19, 21, 23, 29, 31, 35, 43, 47

4.6: 1, 2, 3, 4, 5, 6, 7, 15, 16, 13, 23, 26, 27, 33, 35

4.7: 1, 3, 12, 13, 15, 16, 19, 21, 23, 25, 27, 31, 33, 37, 41, 45, 49, 53, 57, 61, 62, 63, 67, 69, 73, 75, 78, 80

4.8: 10, 11, 12, 14. (For these, instead of the directions specified, start at the point given and calculate the first 3 iterations by hand or with a calculator.)

4.9: 11, 13, 15, 17, 19, 21, 23, 26, 27, 33, 37, 41, 45, 46, 47, 53, 59, 61, 67, 73, 77, 81, 83, 91, 95

Assignment 11: Due Monday November 14th

5.1: 4, 5, 6, 7, 8, 9a, 10a, 11, 35, 36, 39, 40, 41, 55

5.2: 6, 7, 10, 15, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 36, 37, 38, 40, 41b, 42d, 69

5.3: 29-50 all

5.3: 9, 11, 13, 17, 25, 51, 53, 61, 63, 65, 67, 69, 71, 112, 114

5.4: 7, 8, 9, 11, 12, 13, 17, 18, 21, 35

5.5a: 13-38 all, 64, 65

5.5b: 2, 3, 4, 5, 6, 45-52 odd; 69-82 odd

Assignment 12: Due Monday November 28th

6.1: 7, 8, 9, 11, 15, 17, 22, 25, 27, 28

6.1: 40, 41, 42, 44, 45, 47

6.2: 9, 11, 13, 15, 19, 33, 52, 53

6.2: 23, 24, 25, 26, 31, 33, 41, 47

6.3: 7-52 every 3rd problem. (7, 10, 13, 16, etc)

6.4: 5-62 every 3rd problem (5, 8, 11, etc)

6.6: 5, 7, 9, 11, 17

6.5: 3, 4, 5, 6, 7, 9, 11, 15, 27, 29

6.7: 9, 11, 13

6.7: 17, 18