Calculus Suggested Homework Problems

Note on purple colored problems:
Problems marked in purple as optional are problems that you can solve with the material we cover. They're interesting in some way – perhaps an application or example that goes jumps ahead in the course, or goes a little deeper than we'll typically need. However, it's not worth our time to talk about that problem during class. If you've mastered everything else, you might try these to reinforce your understanding of the concepts by applying them to things we haven't fleshed out as much!!

Note on blue colored problems:
Problems marked in blue are somehow absolutely fundamental to the course. Under no circumstances should you even think about glossing over these problems.

Section 2.2
1, 2, 4, 5-38, 61-64, 71,72, 75-82

Section 2.3
1-46, 47-50, 51-100, 101-103

Section 2.4
1-70, 71-74, 75-88, 89-104, 109-114, 115, 124, 125

Section 2.5
1-59, 60-66, 67-70

Section 3.1
1-60, 67-76, 77-88

Section 3.2
1-40, 41-58, 59-70, 71-78, 79, 81-88, 89-105, 106-113, 115-116, 117-119

Section 3.3
1-30, 31-60, 61-88, 89-92, 94-96, 97-112, 113-116, 119-122, 123-124, 125-144

Section 3.4
1-2, 13-50, 57-94, 95-116, 117-118, 119-132-148, 153-156, 157-170, 173-176, 177-180, 181-184

Section 3.5
1-52, 53-58, 59-80, 81-89, 91, 93-95

Section 3.6
1-12, 13-16, 17-38, 49-66, 73-78, 79-82

Section 3.7

1-10, 11-16, 17-51

Section 3.8
1-30, 31-32, 33-34, 35-46

Section 4.1
1-24, 25-50, 51-70, 71-78, 79-80

Section 4.2 will be covered later. It will not be on test 2.

Section 4.3
1-4, 5-56, 57-90, 91-96, 97-102, 103-106, 107-112,

Section 4.4
1-2, 3-58, 59-70, 71-94

Section 4.5
1-12, 13-46, 47-62, 63, 64, 65-76

Section 4.2 **Yes it's out of order.**
1-64, 65-86

Section 4.7
1-56

Section 4.8
1-14, 15-33, 33-46, 47-54, 55-59

Section 5.1
1-14, 15-38, 45-48, 49-74, 76-78

Section 5.2
1-44, 45-46, 47-62, 63-72

Section 5.3
1-51, 52-64, 65-68, 69-76, 79-85

Section 5.4
1-8, 9-44, 45-59, 60, 61-113

Section 5.5
1-8, 9-28, 29-32, 33-34, 35-56, 57-72, 73-84, 85-106, 107-112, 113-118

Section 5.6

1-82, 83-116

Section 5.7
1-4, 5-28, 29-76, 77-84, 87-95, 96-100

Section 5.8
1-50, 51-62, 63-66, 67-78

Section 5.9 will be skipped

Chapter 6 will be skipped. It is an introduction to something called <u>differential equations</u> and is really fun if you're looking for some reading over winter break

Section 7.1
1-52, 75-86

Section 7.2
1-67

Section 7.3
1-61

Section 7.4
1-55

Section 7.5
1-49

Section 7.6
1-58

Section 7.7
1-36