

**References:**

1. Calculus and Analytical Geometry by George B Thomas and Ross L Finney, 9th Edition, Chapters 1-7, and 12.
2. Advanced Engineering Mathematics by Erwin Kreyszig, John Wiley & Sons, 8th Edition, Chapters 6, 7, 17, 18.1-18.7 and 22.
3. Equivalent courses: MA 101 and MA 104

**Problems:**

The following problems are from Kreyszig.

Problem set	Problems
6.3	4, 8
6.4	11, 14
6.7	1, 5
7.1	1, 5, 11
17.1	1
17.2	11, 16, 23
17.3	14, 16
17.5	23, 21
18.2	1, 4
18.3	1, 6
18.4	14, 15
22.6	3, 4, 15

The following problems are from Thomas and Finney, from the Practice Exercises at the end of the chapter.

Chapter	Problems
1	7, 13, 18, 19, 20
2	7, 22, 32, 40, 48, 54, 58, 73, 100, 116
3	4, 11, 25, 41, 62, 73, 82
4	3, 9, 16, 21, 27, 51, 72, 77
5	3, 13, 20, 53, 63
6	20, 25, 37, 53, 97, 121, 122,
7	7, 23, 28, 41, 51, 61, 70, 87, 104, 117, 129, 131, 152
12	12, 20, 26, 39, 67, 71