

## Math 251 – Recommended Practice Homework Problems from Poole, Linear Algebra, A Modern Introduction, 4<sup>th</sup> edition

The following exercises are *not* to be handed in for marking. Instead, you are encouraged to work on these selected exercises as part of your studying for the course.

Section	Exercises
1.1	1(b), 3(b), 5(a), 9, 13, 19.
1.2	3, 9, 15, 25, 31, 33, 35, 41, 43, 47 - use any method, 51
Cross product	Page 48-49: 1, 2, 6(a)
1.3	1, 3, 7, 9, 13, 19(a),(b), 23, 27, 29, 31, 33, 35, 37, 43.
2.1	1, 3, 9, 13, 15, 17, 21, 23, 27, 29, 31, 35, 37, 41.
2.2	1, 3, 11, 13, 17, 21, a few of 25 – 33 odd, 35, 37, 41, 45, 49.
2.3	1, 3, 5, 7, 9, 11, 15, 17, 23, 25, 27, 29, 31, 35, 41.
2.4	1, 5, 7, 9, 15, 17, 45.
3.1	5, 7, 13, 15, 17, 21, 23, 31, 33, 35, 38(a), 39(c).
3.2	1, 3, 5, 7, 9, 13, 15, 23, 37.
3.3	3, 5, 9, 11, 13, 21, 23, 25, 27, 29, 31, 33, 35, 39, 49, 53, 55, 57.
3.4	3, 7, 9.
3.5	3, 7, 11, 15, 17, 19, 21, 23, 27, 29, 31, 37, 39, 41, 45, 51, 57.
3.6	1, 3, 5, 7, 11, 13, 17, 19, 21, 23, 25, 27, 31, 37, 39.
Complex numbers	See exercise handout: a few of 1 – 7.
4.1	5, 13, 15, 23, 25, 27, 35, 37.
4.2	5, 7, 13, 15, 27, 29, 31, 33, 35, 37, 45, 47, 49, 51, 57.
4.3	a couple of 1 – 7 odd (be sure to try #7), 15, 17, 21.
4.4	5, 7, 9, 11, 13, be sure to try 15, 17, 43.
5.1	3, 5, 9, 13, 19, 21, 27.
5.2	3, 5, 7, 9, 11, 13, 17, 21.
5.3	3, 5, 9, 11, 17.
5.4	1, 3, 5, 21, 23.
7.3	7, 9, 11, 15, 17, 19, 27, 41.