

Do 5 of the following problems.

Other interesting problems: 2.2: 16, 22, 23, 25, 28, 33, 34; 2.3: 6, 11, 16; 3.1: 4, 8, 9, 19, 24, 29, 30, 34, 40, 42.

1. 2.2.15
2. 2.2.17 *Comment:* One approach is to calculate the determinant by computing eigenvalues.
3. 2.2.35
4. 2.3.14
5. 3.1.25
6. (a) 3.1.32
(b) 3.1.33