MATRL 100A: Structure and Properties I, assignment 3

Chapter 3

Note that many of the results are provided in the book, but not the steps.

Questions 3.15, 3.16, 3.17, and 3.19. For hexagonal unit cells, note the cell volume V is given by $V = (\sqrt{3}/2)a^2 c$ and there are two atomic spheres *per* primitive hexagonal unit cell.

3.20, 3.22, 3.25

3.27, 3.29, 3.30, 3.31, 3.33, 3.34, 3.35

3.40, 3.41, 3.42, 3.43, 3.44, 3.45, 3.47, 3.48, 3.52, 3.54, 3.56

3.58, 3.59, 3.60, 3.61, 3.62, 3.64, 3.65, 3.67