

P474

HWK # 2.

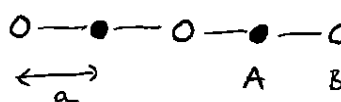
Due: Jan 19

- ⊙ Problems 1.1, 2.2, 2.3 from Textbook.
- ⊙ For the following lattice structures find the Wigner-Seitz unit cell, primitive lattice vectors, reciprocal lattice vectors, 1st Brillouin zone, and if applicable the structure factor (assuming f_A and f_B form factors for atoms A and B)

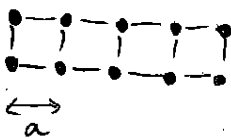
a) Monoatomic chain



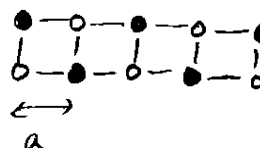
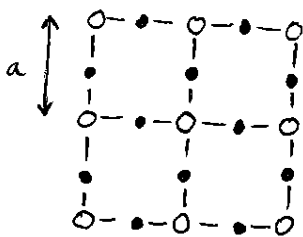
b) Diatomic chain



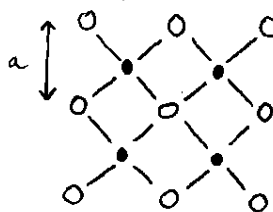
c) Ladder



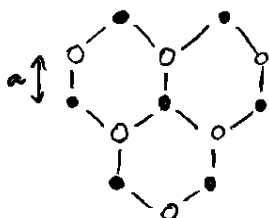
d) Diatomic ladder

e) "CuO₂"

f)



g) Honeycomb



i) Kagomé

