

1. Return to the two-dimensional crystal you drew for the last homework. On a printout (or printouts) of your lattice (with the lattice vectors \vec{a} and \vec{b} labeled), draw the following lattice planes: (10) , (01) , (11) , and (12)
2. Review Fig. 1.6 for clues on this problem. Draw several cubic unit cells and draw the following lattice planes within them: $(0\ 0\ 1)$, $(1\ 0\ 1)$, $(0\ 1\ 1)$, $(2\ 1\ 0)$, $(2\ 1\ 1)$ and $(1\ 2\ 2)$. For some of the lattice planes, it may be easier to draw more than one unit cell. For each set of planes, what is the distance between planes?