**Helix-spacing Problem**

For the crystal shown below:

a) Draw a unit cell. Actually tiling the area of molecules shown below with your choice of unit cell will help think about how to draw the corresponding reciprocal lattice.

b) Draw the reciprocal lattice out to the 5th spot in each direction, with approximately the correct relative spacing. The origin of reciprocal space does not have to be in the crystal, in any case, draw the reciprocal lattice down below the real-space crystal lattice. However, it is useful to line up the lattices so that directions are correlated.

c) Circle a spot that is especially strong because of the side-to-side helix packing in this crystal. (Draw in the corresponding Bragg Planes in the real space area.)

**USE A RULER TO DO YOUR DRAWING:**
SPACING, RELATIVE PROPORTIONS AND ORIENTATION IS IMPORTANT.