AP Biology Leaf and Chloroplast Anatomy Lab

Use the Photosynthesis Slide set, pictures 1&2 and your textbook to answer the following:

1. Draw a leaf in cross-section and label the following:
   1. Upper and lower epidermis
   2. Cuticle
   3. Pallisade Layer
   4. Spongy Layer
   5. Vein (phloem and xylem)
   6. Guard Cells
   7. Stomate
2. State the function of each layer of the leaf above.
3. Where are the bundle sheath cells?
4. Which of the above layers are the mesophyll?
5. Draw and label a chloroplast using the following labels: Thylakoid, Granum(a), Stroma, Outer membrane
6. Where in the chloroplasts are the chlorophyll molecules?