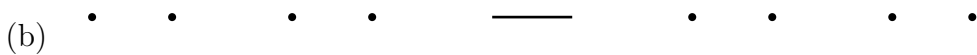
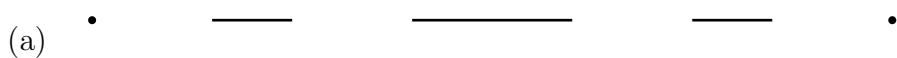


Please complete the following homework assignment on a separate piece of paper. It is due on December 6th at 9:30 am.

1. A hyperhypertetrahedron is a 5th dimensional tetrahedron. A hyperhypercube is a 5th dimensional cube. Draw two dimensional projections of both of these figures by repeating the procedure for constructing the hypertetrahedron and hypercube. Draw your diagrams in a projection that does not involve overlapping lines. Use color to indicate the lines that move into the fifth dimension. How many vertices, edges, faces, solids and hyperregions do these figures have?
2. The following figures show slices of two dimensional figures as they pass through lineland. Describe the figures and draw the figures.



3. The following figures show slices of three dimensional figures as they pass through flatland. Describe the figures and sketch them, using shading to illustrate their three dimensional structure.

