2.2,

If there are no limits then no area will remain. The area will increase with each subdivision towards infinity.

2.8,

The complement of the color (r,g,b) is the color in CMY space

(c,m,y) = (1-r, 1-g, 1-b)

2.11,

Draw a test line, then count the number of times this line intersects with the polygon. A point is inside the polygon if the count of intersections is odd or the point lies on an edge of the polygon. Else, the point is outside the polygon.

2.12,

Test each line segment against the others in the polygon and see if any of them intersect. If they do, the polygon is not simple.

2.15,

The colors in between their vertices are a mixture of the colors at each vertex.

2.19

Increase the edge to a large number if this extended edge intersects with multiple edges, then it is concave. If it does not, it is convex.