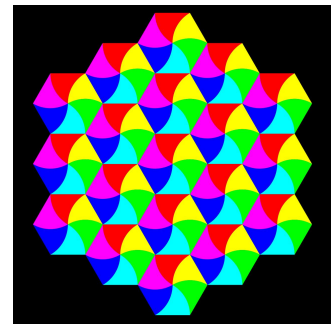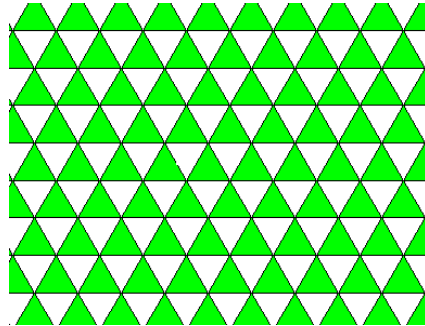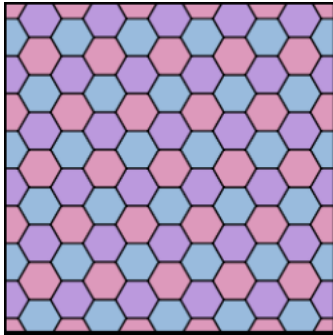# Tessellation

A pattern that covers a plane by transforming the same figure or set of figures so that there are no overlapping or empty spaces.

Regular Tessellation

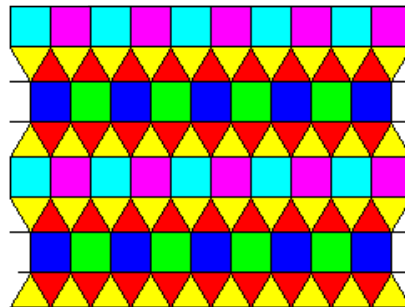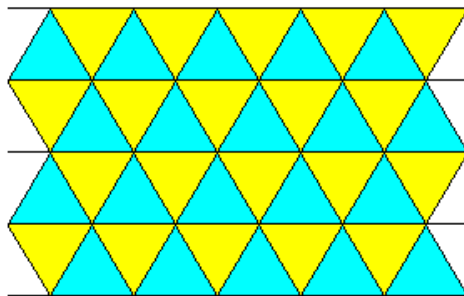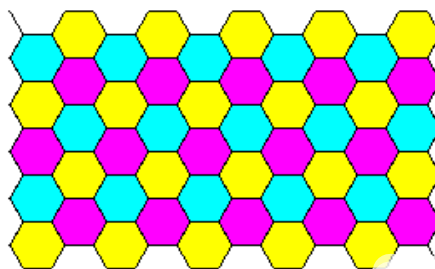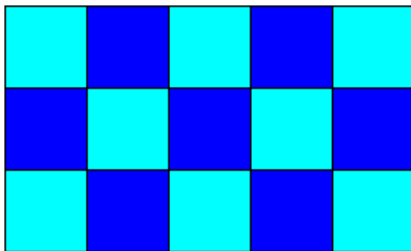A tessellation formed by only one type of regular polygon.

How to determine whether a regular polygon tessellates the plane?

1st: Find $\dfrac{180(n - 2)}{n}$ = ONE Angle measure

2nd: Determine if the ONE Angle measure is a factor of 360.

Uniform

Tessellations containing the same arrangement of shapes and angles at each vertex.

Semi-Regular Tessellation

A uniform tessellation formed using two or more regular polygons.

9.4 tessellations

M.C. Escher

Master of Tessellations!!

9.4 tessellations

Extra Credit opportunity - Make your own tessellation.

<u>Guidelines</u>
1) Neat, creative, colorful
2) Size: at least 8 1/2 X 11
3) Your own work
4) Due on the day of your final exam
5) I will award extra credit points (1-20) toward the exam depending on the level of work.