

Tessellations

Tessellation - A pattern of figures that cover a plane with no gaps or overlaps.

Regular Tessellation - A tessellation that consists of congruent polygons.

Semiregular Tessellation - A tessellation that consists of two or more regular polygons.

Uniform Tessellation - A tessellation that contains the same combination of shapes and angles at each vertex.

1. Determine whether each figure tessellates a plane.

a) Regular Pentagon

b) Regular Hexagon

2. Determine whether a regular octagon and a square can be used to create a tessellation. If so, sketch the tessellation and classify it as regular, semiregular or a uniform tessellation.