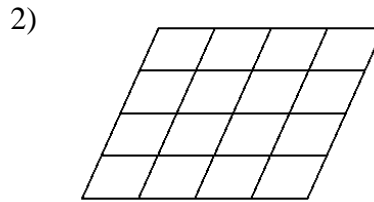
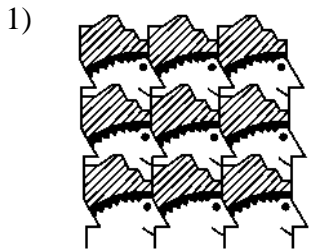


# 9.7 – Tessellations

Does the picture show a tessellation of a repeating figure? If so, identify the repeating figure and the transformation used.



3) A pure tessellation is made up of congruent copies of one figure. Can the hexagon at the right be used to make a pure tessellation? If so, draw a sketch. If not, explain.



Determine whether each figure will tessellate a plane. Explain.

4) a regular 14-gon

5) a non-regular pentagon

6) an obtuse triangle

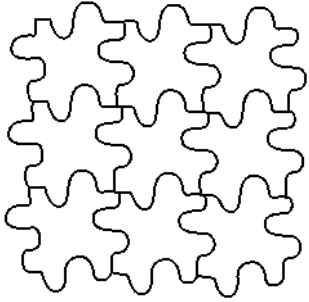
7) an acute triangle

8) a trapezoid

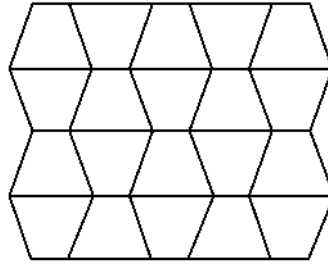
9) a regular 20-gon

Determine what kind of transformation helps create each tessellation.

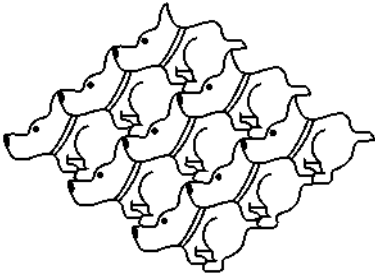
10)



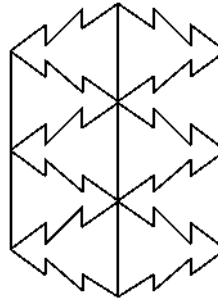
11)



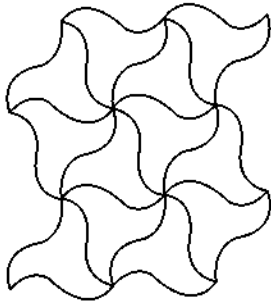
12)



13)

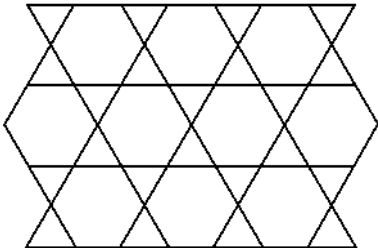


14)



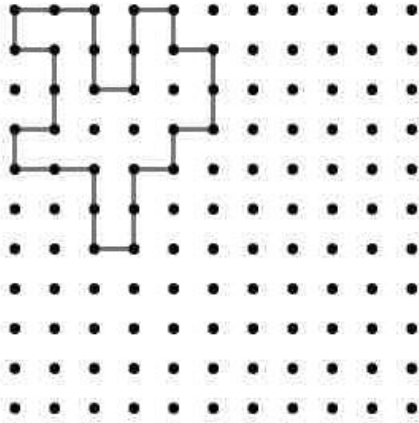
What kind of tessellation is the following? How can it be named?

15)

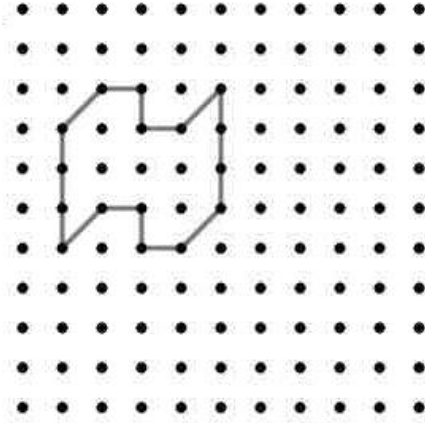


16) Choose ONE of the following problems and tessellate the figure on the given dot paper.

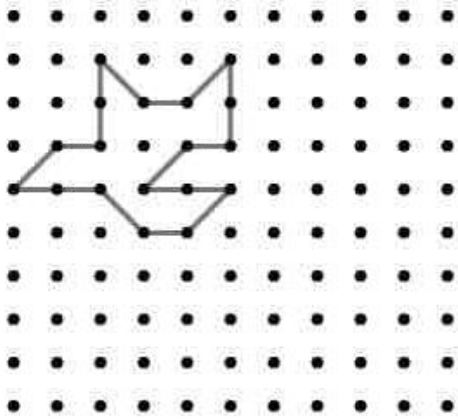
a)



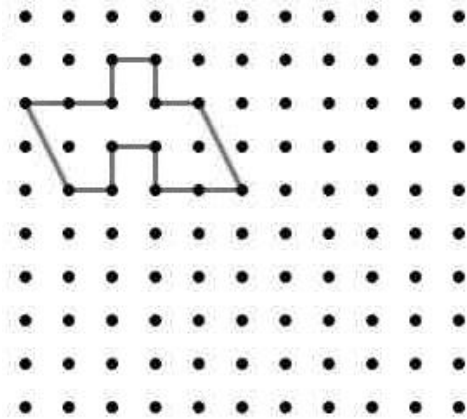
b)



c)

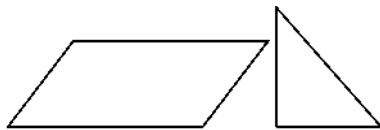


d)



Can each set of polygons be used to make a tessellation? If so, draw a sketch. Remember, on NOTABILITY, you can cut and paste.

17)



18)

