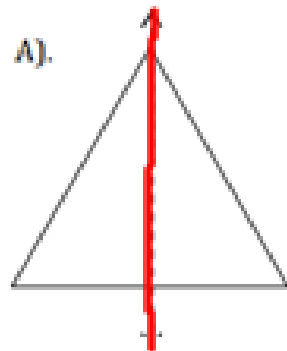
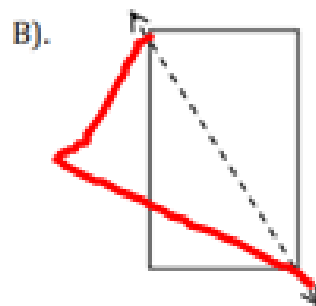


Reflective symmetry (draw a line down the shape and both sides are mirror images of each other)

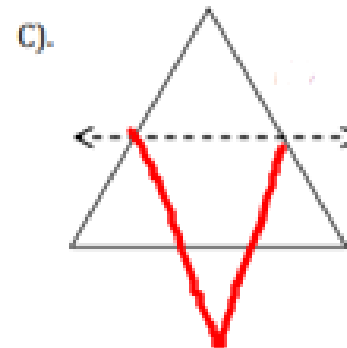
Is the dashed line in each figure a line of symmetry? Explain.



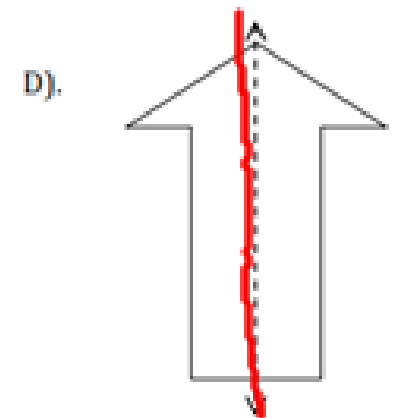
yes



No

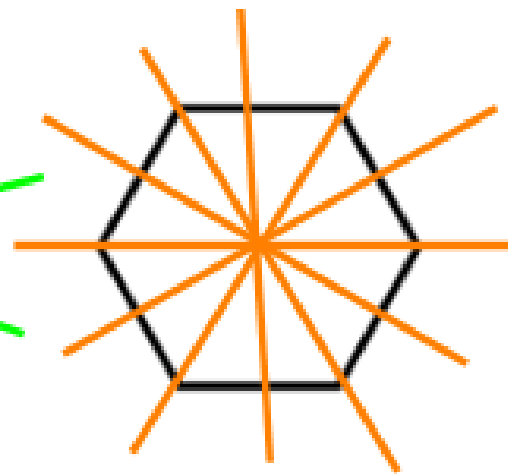
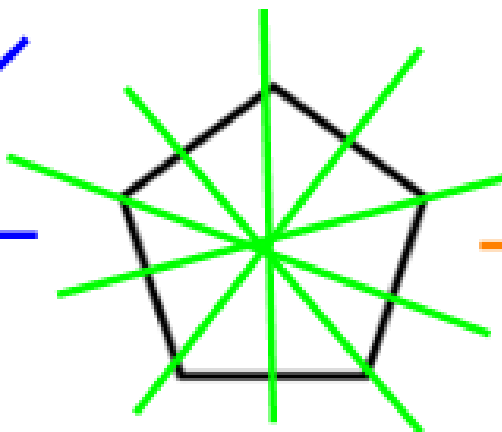
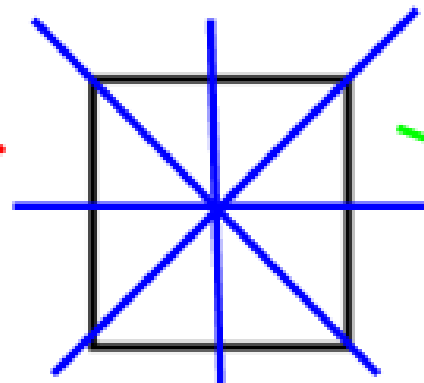
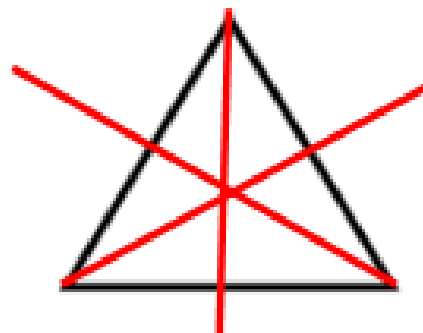


no



yes

Draw these shapes, draw ALL of their lines of symmetry. Record the # of sides and the # of lines of symmetry



of sides

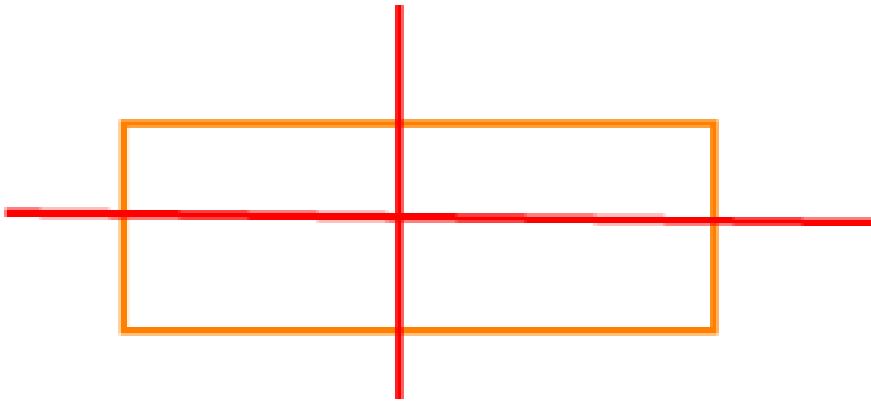
of lines of symmetry

3
4
5
6

3
4
5
6

Note: that rule only works for shapes where all the sides are the same length

Ex. Rectangle

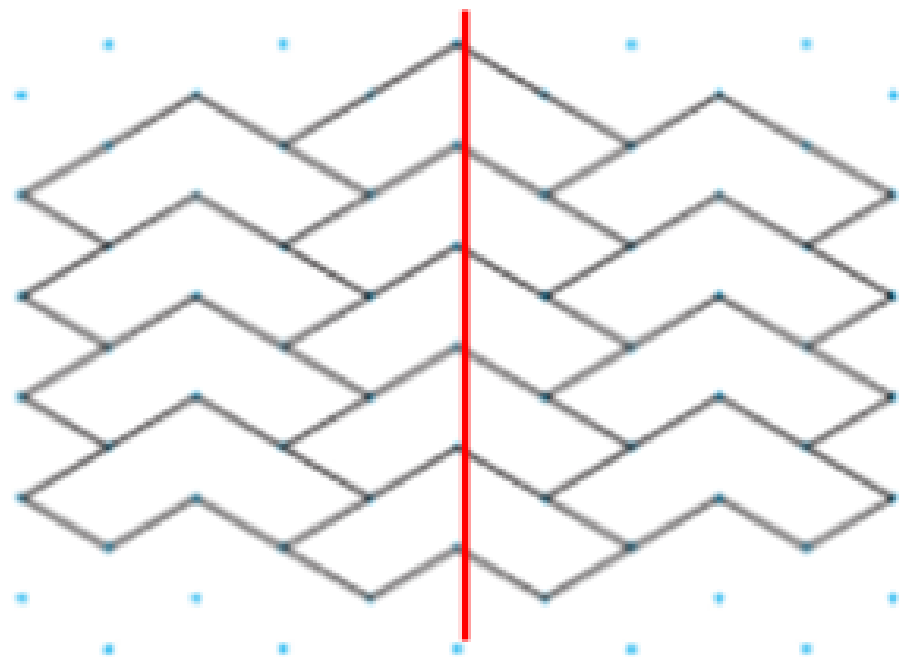


Sides = 4

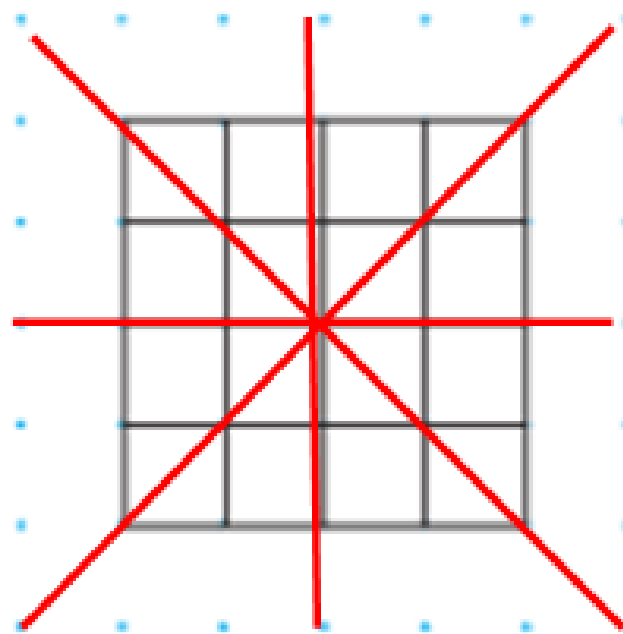
lines of symmetry = 2

Identify the lines of symmetry in each tessellation.

a)

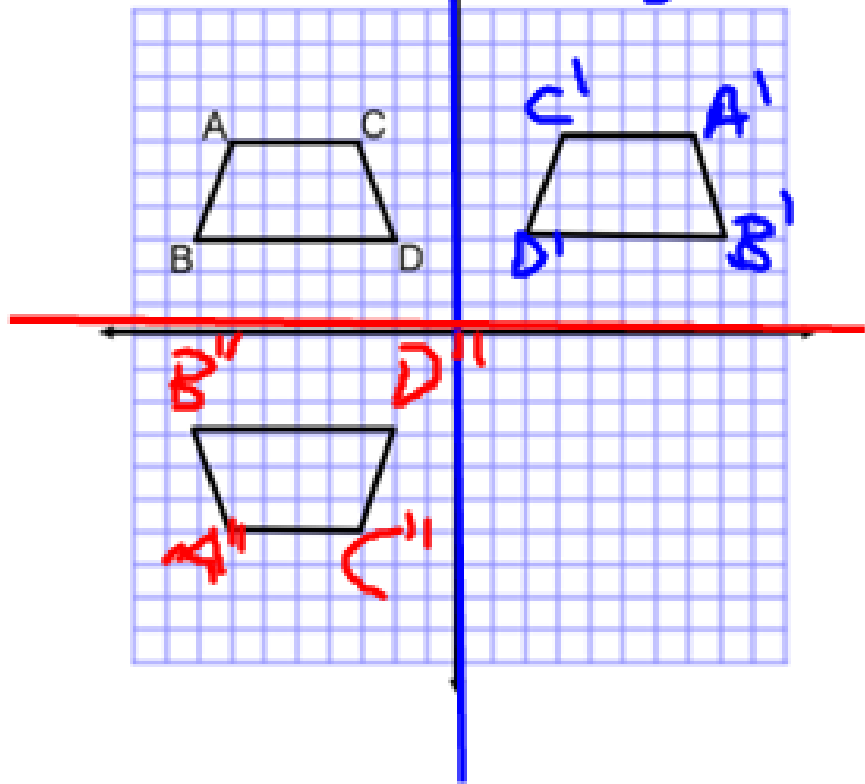


b)



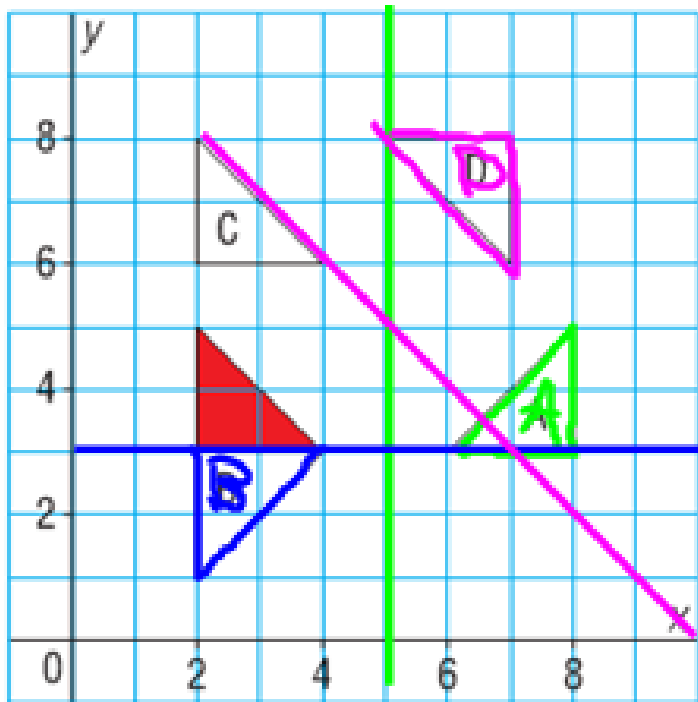
The line of symmetry doesn't have to be "inside" the shape.

line of symmetry at $x=0$
reflects ABCD
into A'B'C'D'



line of symmetry at $y=0$
reflect ABCD
into A''B''C''D''

Identify the triangles that are related to the red triangle by a line of reflection.
Describe the position of each line of symmetry.

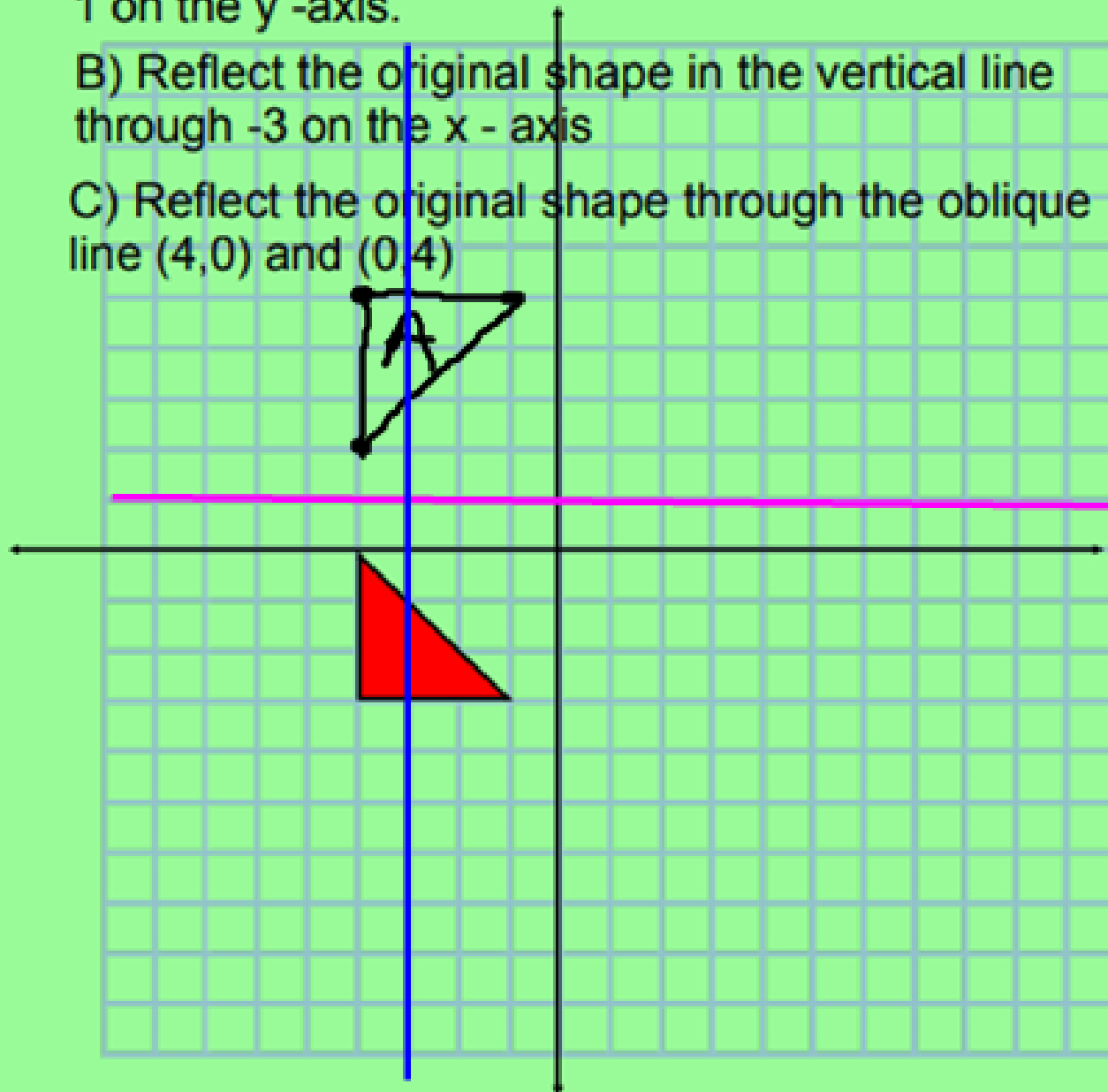


C is not a reflection

A) Reflect this shape in the horizontal line through 1 on the y-axis.

B) Reflect the original shape in the vertical line through -3 on the x-axis

C) Reflect the original shape through the oblique line (4,0) and (0,4)



horizontal

vertical
|

oblique
/