

Warm-Up

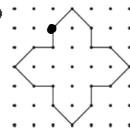
May 7,2018

Which polygons have rotational symmetry? State the order of rotation and the angle of rotation symmetry for each.





b)





d)



order of rotation

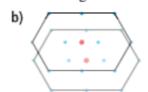


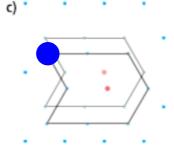
News



State the order of rotation and the angle of rotation symmetry.







order of rotational symmetry
[# +9mes overlaps before 360]



angle of rotation

Section 7.6 Rotations and Rotational Symmetry

Terms:

Rotational Symmetry

A shape has rotational symmetry when it coincides with itself after a rotation of less than 360 degrees about its center.

Order of rotation

The number of times the shape coincides with itself, during a rotation of 360 degrees.

Angle of rotation symmetry

is equal to <u>360</u> the order of rotation

****A shape that requires 360 degrees to return to its original position does not have rotational symmetry. A shape cannot have rotational symmetry of order 1.*****

An object has an order of rotation equal to 4 what is the angle of rotation?

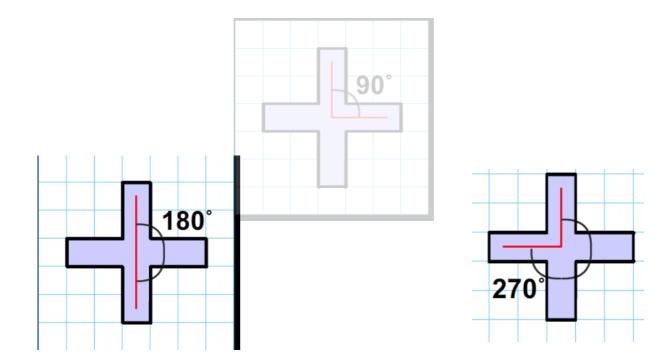
Section 7.6 Rotations and Rotational Symmetry

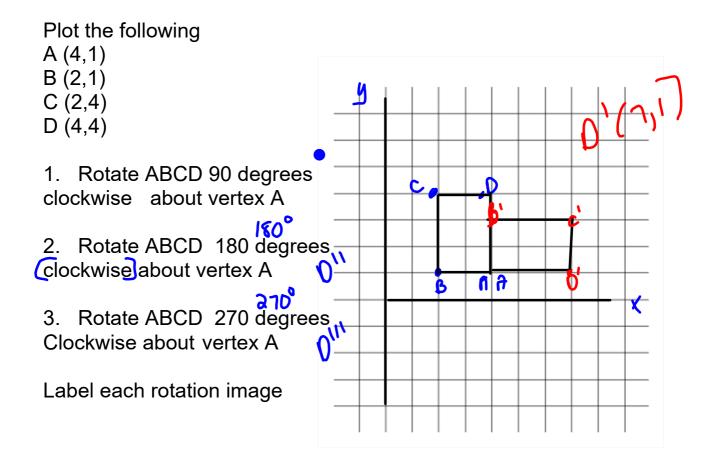


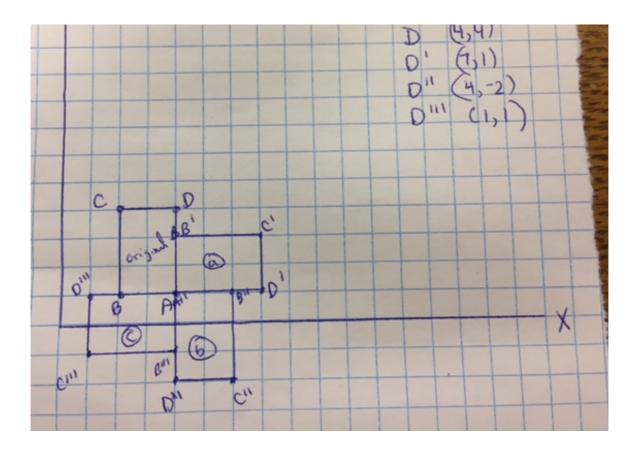


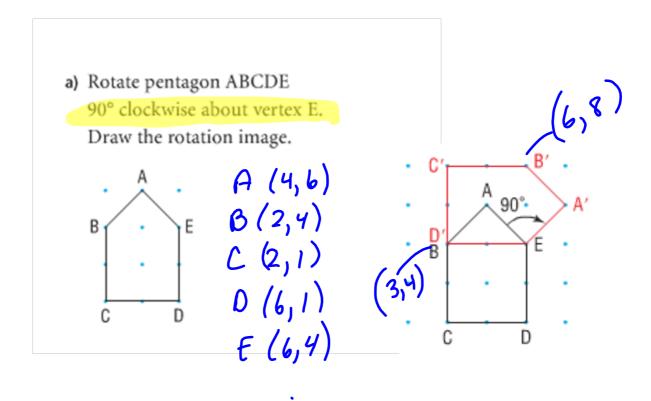


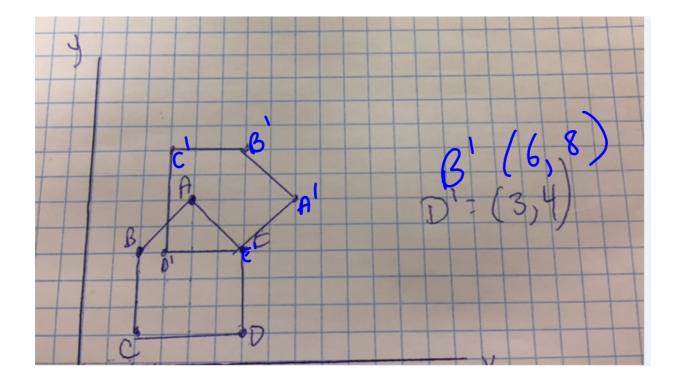












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4, 5,
6 order of rotation angle of rotation

9,13[a,b],14,15

Use coordinates.