VISIT MATH

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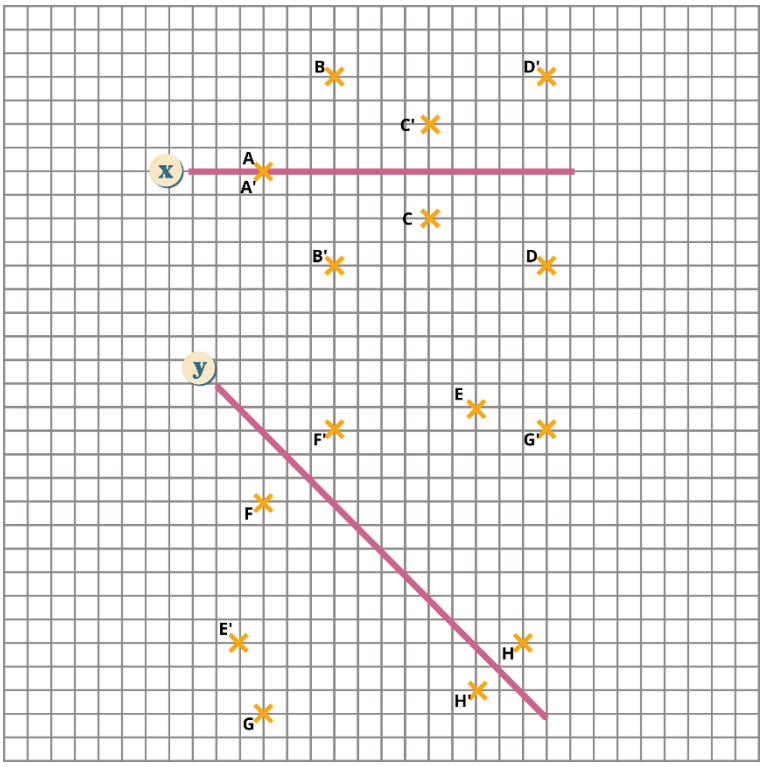
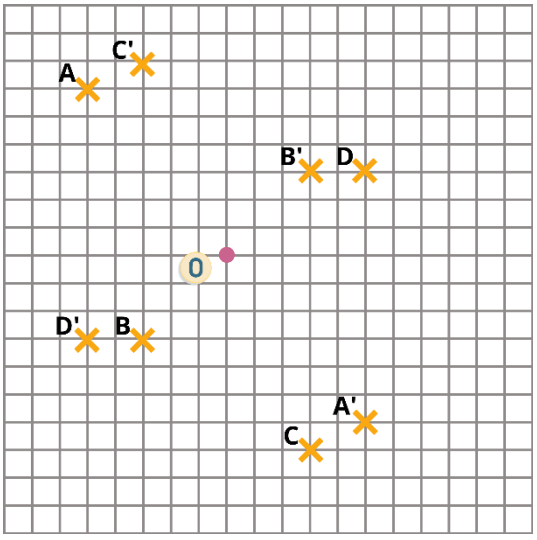
Geometry: Symmetry - Answers

1. Draw the points 1', 2', 3' and 4', respective symmetries of 1, 2, 3 and 4 with respect to line A.

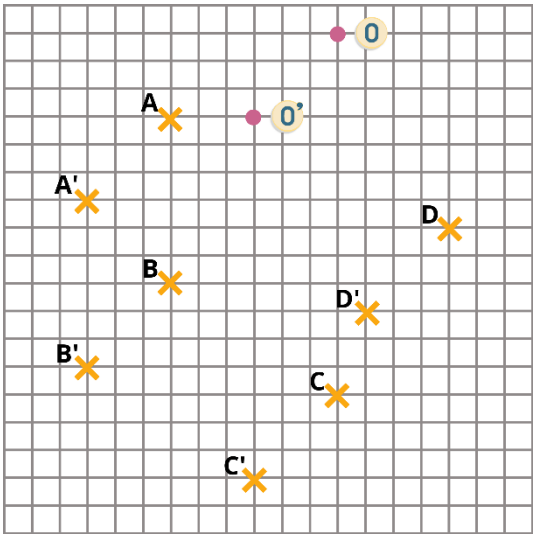
2. Draw the points 5', 6', 7' and 8', respective symmetries of 5, 6, 7 and 8 with respect to line B.



3. Draw the points 1', 2', 3' and 4', respective symmetries of 1, 2, 3 and 4 with respect to the centre O.



4. Draw the points 1', 2', 3' and 4', respective symmetries of 1, 2, 3 and 4 with respect to the translation transforming O in O'.



5. Draw the point 1', symmetry of 1.

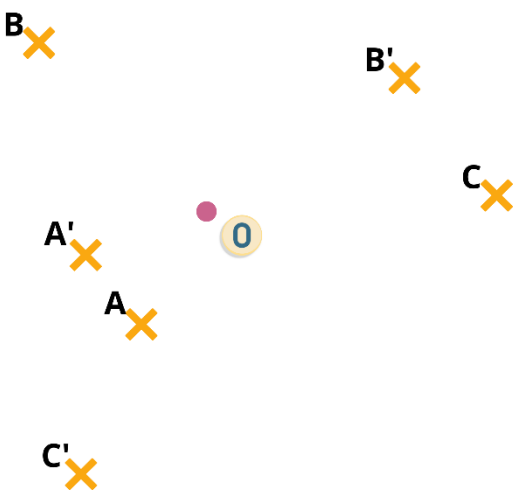
Use the centre of rotation O with an angle of 40° in a clockwise direction.

6. Draw the point 2', symmetry of 2.

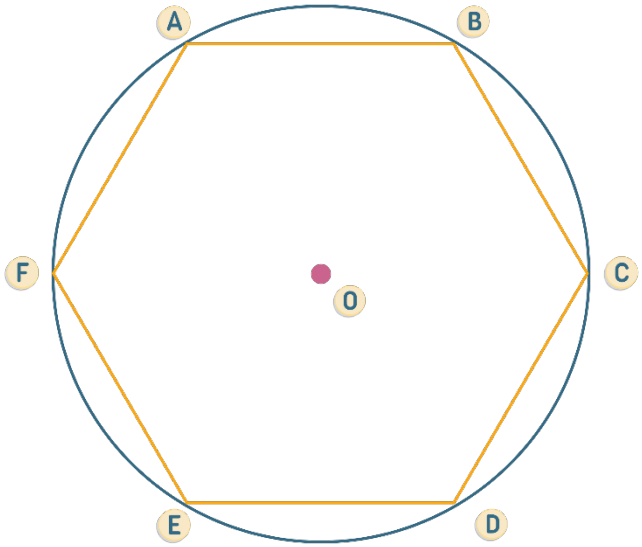
Use the centre of rotation O with an angle of 100° in a clockwise direction.

7. Draw the points 3', symmetry of 3.

Use the centre of rotation O with an angle of 120° in a clockwise direction.



8. Look at the shape and answer the following questions.



a) The image of point F by the reflexion symmetry of axis BE is **point D.**

b) The image of segment [AB] by central symmetry of centre O is **segment [DE].**

c) The image of point E by the translation applying point F on point O is **point D.**

d) The axis of symmetry applying triangle AOF on triangle COD is **line BE.**

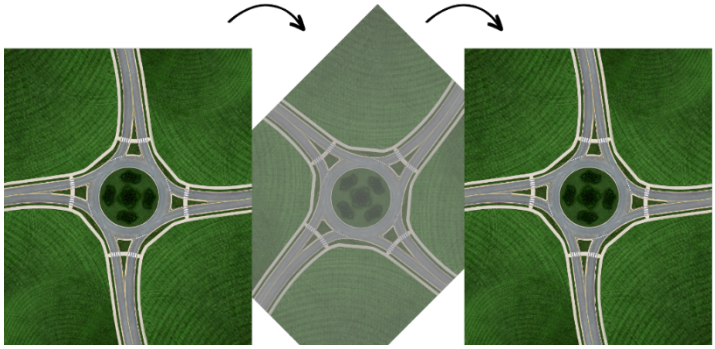
9. Draw the centre of the central symmetry.

10. Draw the axis of the reflexion symmetry.

11. Draw the vector of the translation symmetry.

12. Identify the type of symmetry. Thick the correct answer.

☐ Reflection symmetry (line symmetry)
☒ Rotational symmetry
☐ Translational symmetry
☐ Glide reflection symmetry
☐ Point symmetry (central symmetry)



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☐ Reflection symmetry (line symmetry)

☐ Rotational symmetry

☒ Translational symmetry

☐ Glide reflection symmetry

☐ Point symmetry (central symmetry)

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