Rotations

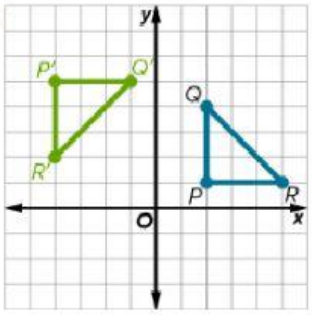
Triangle XYZ has vertices $X(4,-4)$, $Y(6,-2)$, and $Z(7,-4)$. Graph $\triangle XYZ$ and its image after a rotation 90° counterclockwise about $(3,0)$.

Predict where $\triangle X'Y'Z'$ will be located after the rotation.

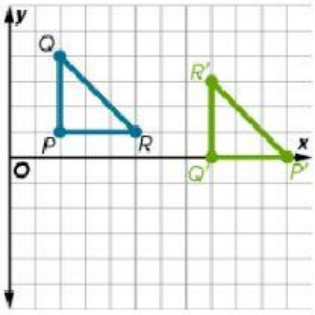
- A Quadrant I
- B Quadrant II
- C Quadrant III
- D Quadrant IV

Triangle PQR has vertices $P(2,1)$, $Q(2,4)$, and $R(5,1)$. Select the correct graph of ΔPQR and its image after a rotation 270° counterclockwise about $(7,5)$.

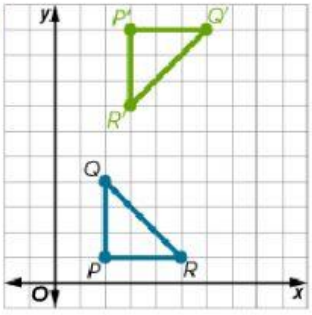
A)



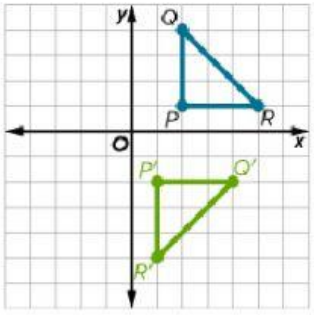
B)



C)



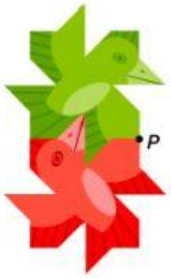
D)



عزيزي الطالب : أولاً اجتهد في فهم ومذاكرة تمارين الكتاب(الكتاب أولاً) . تمنياتي للجميع بالنجاح والتفوق

LIVEWORKSHEETS

TESSELLATIONS Ernesto is trying to create a tessellation for a project in his art class. A tessellation is a pattern of one or more figures that covers a plane so that there are no overlapping or empty spaces. Describe the position and orientation of the green bird after it is rotated 180° about point *P*.



- **A)** The green bird would be upright and to the right of the red bird.
- **B)** The green bird would be facing left and to the right of the red bird.
- **C)** The green bird would be facing right and to the left of the original green bird.
- **D)** The green bird would be upside down and to the right of the red bird.

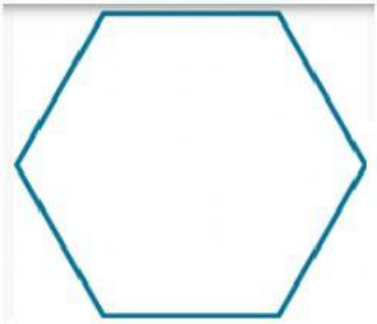
Symmetry

Determine whether each figure has line symmetry. Write yes or no. If so, state the number of lines of symmetry.



- **A** yes; 1
- **B** yes; 2
- **C** yes; 4
- **D** no

Determine whether each figure has line symmetry. Write yes or no. If so, state the number of lines of symmetry.



- **A** yes; 1
- **B** yes; 3
- **C** yes; 6
- **D** no

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