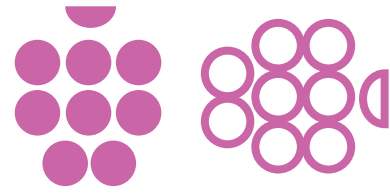
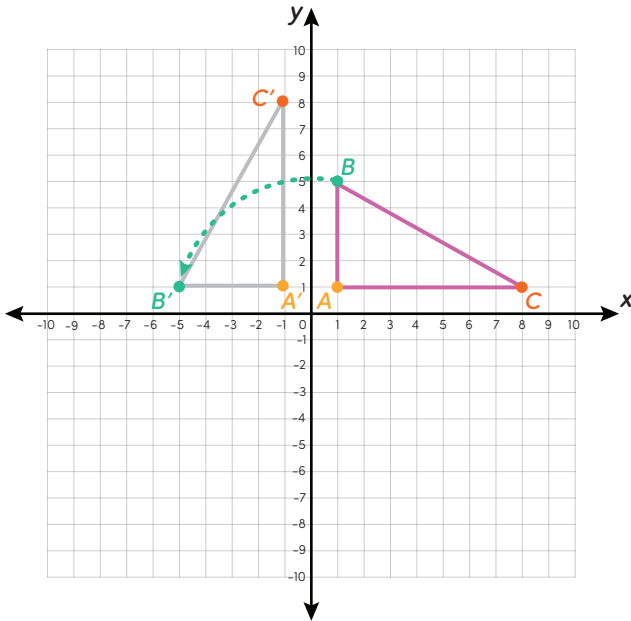


# Rotations on the Coordinate Plane

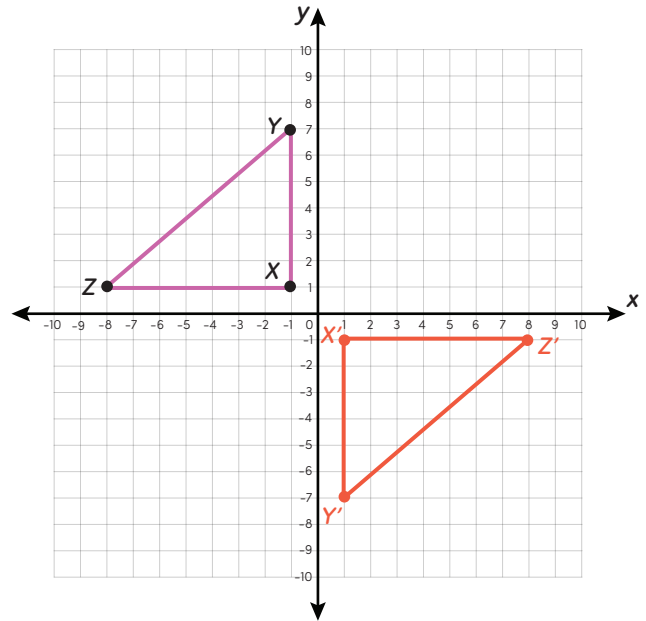


A **rotation** turns a figure around a fixed point. Try it! Graph the image of each figure by completing the given rotation. The first problem has been done for you.

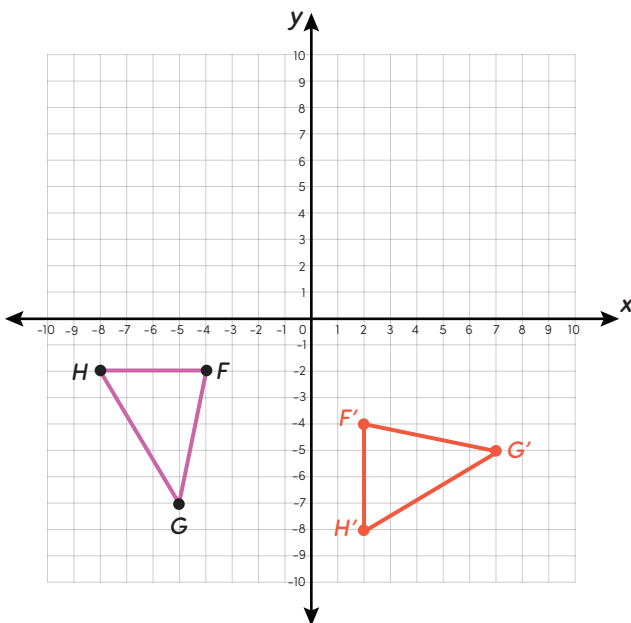
Graph the image of  $\triangle ABC$  after a rotation  $90^\circ$  counterclockwise around the origin.



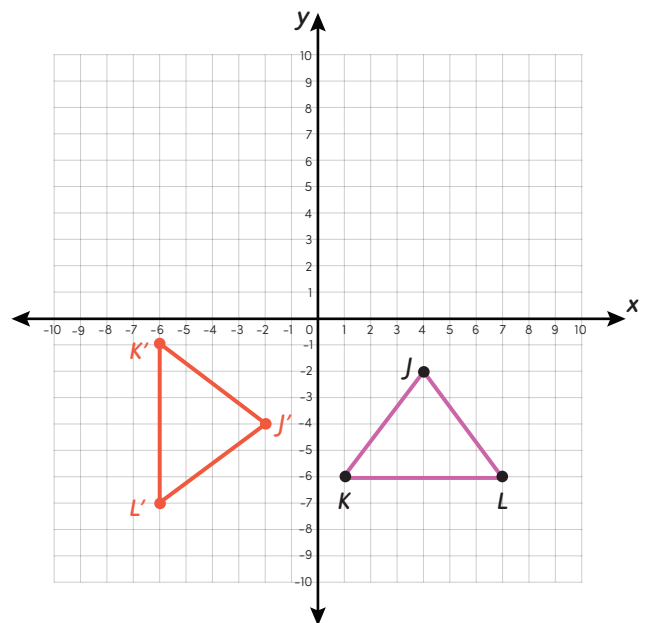
Graph the image of  $\triangle XYZ$  after a rotation  $180^\circ$  counterclockwise around the origin.



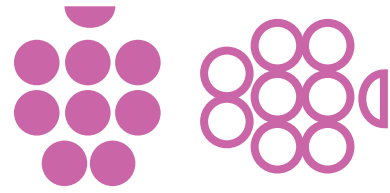
Graph the image of  $\triangle FGH$  after a rotation  $90^\circ$  counterclockwise around the origin.



Graph the image of  $\triangle JKL$  after a rotation  $270^\circ$  counterclockwise around the origin.

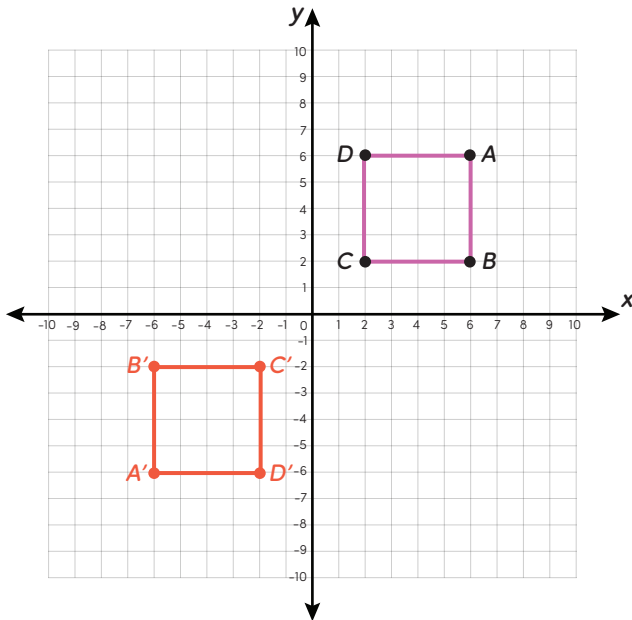


# Rotations on the Coordinate Plane

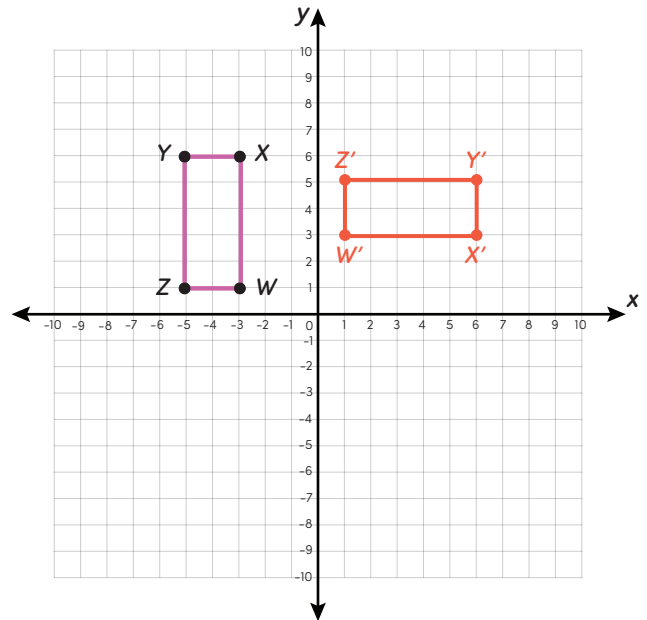


Keep going! Graph the image of each figure by completing the given rotation.

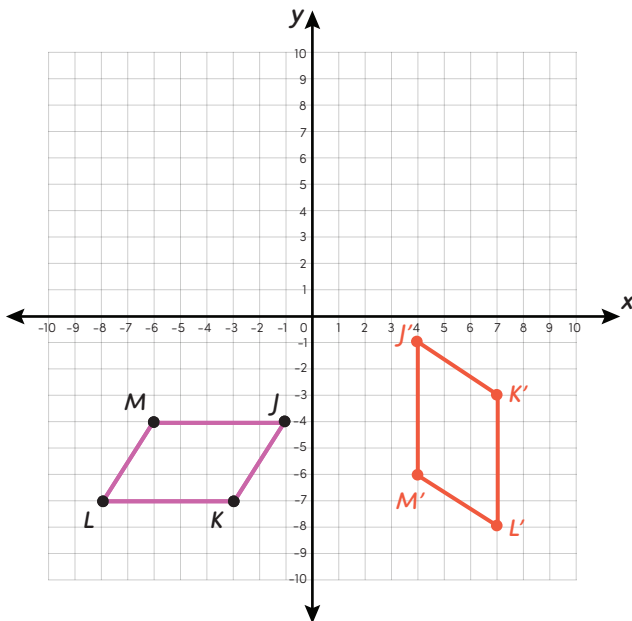
Graph the image of square  $ABCD$  after a rotation  $180^\circ$  counterclockwise around the origin.



Graph the image of rectangle  $WXYZ$  after a rotation  $270^\circ$  counterclockwise around the origin.



Graph the image of parallelogram  $JKLM$  after a rotation  $90^\circ$  counterclockwise around the origin.



Graph the image of trapezoid  $PQRS$  after a rotation  $180^\circ$  counterclockwise around the origin.

