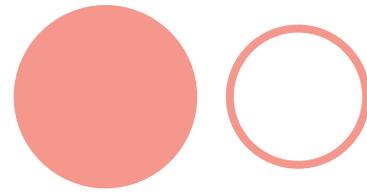
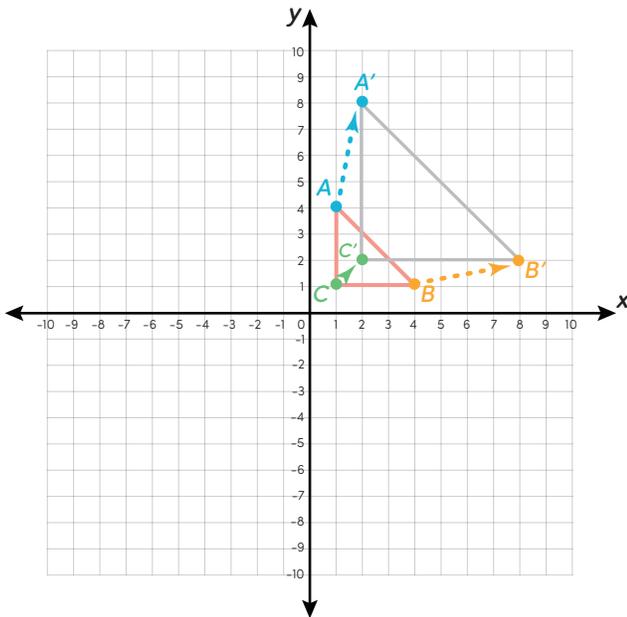


# Dilations on the Coordinate Plane

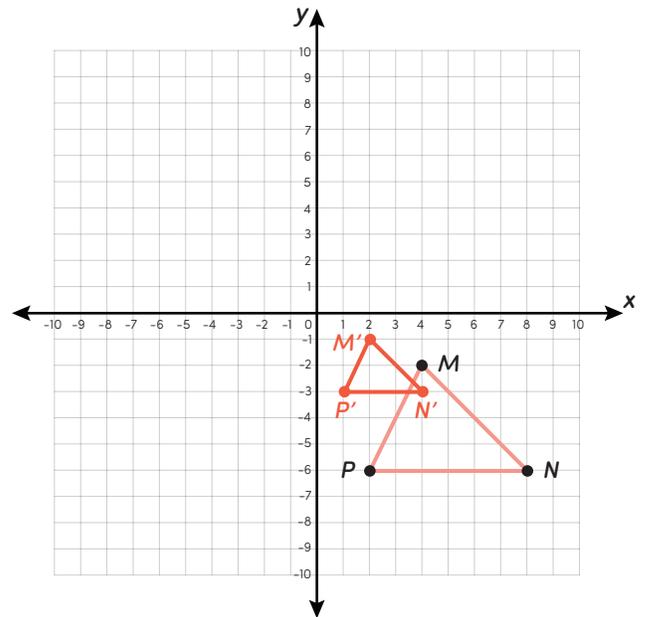


A **dilation** changes the size of a figure without changing its shape. Try it! Graph the image of each figure by completing the given dilation. The first problem has been done for you.

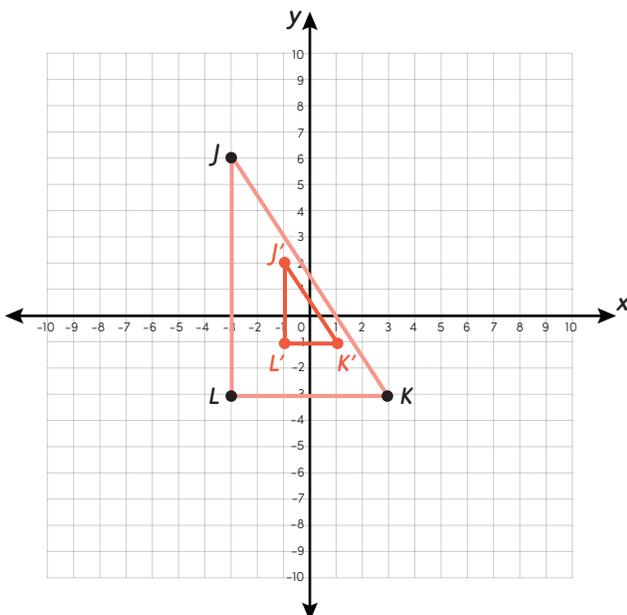
Graph the image of  $\triangle ABC$  after a dilation with a scale factor of 2, centered at the origin.



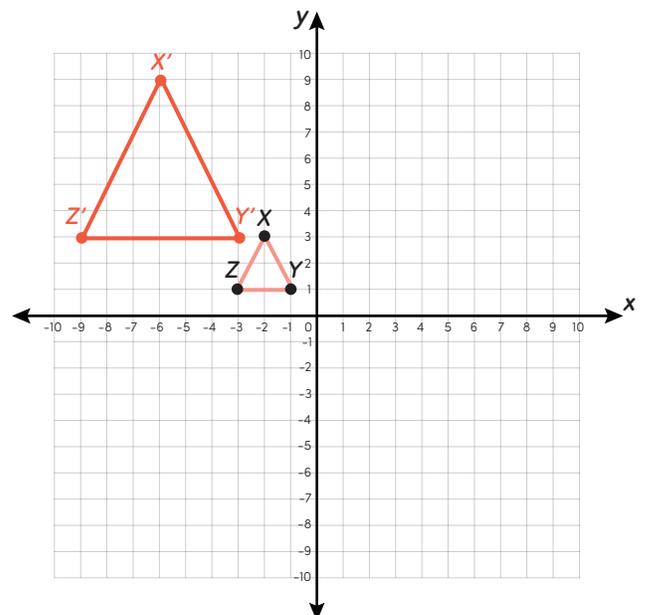
Graph the image of  $\triangle MNP$  after a dilation with a scale factor of  $\frac{1}{2}$ , centered at the origin.



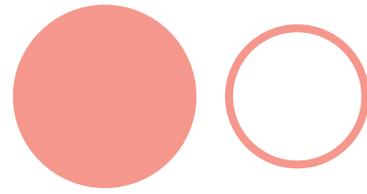
Graph the image of  $\triangle JKL$  after a dilation with a scale factor of  $\frac{1}{3}$ , centered at the origin.



Graph the image of  $\triangle XYZ$  after a dilation with a scale factor of 3, centered at the origin.

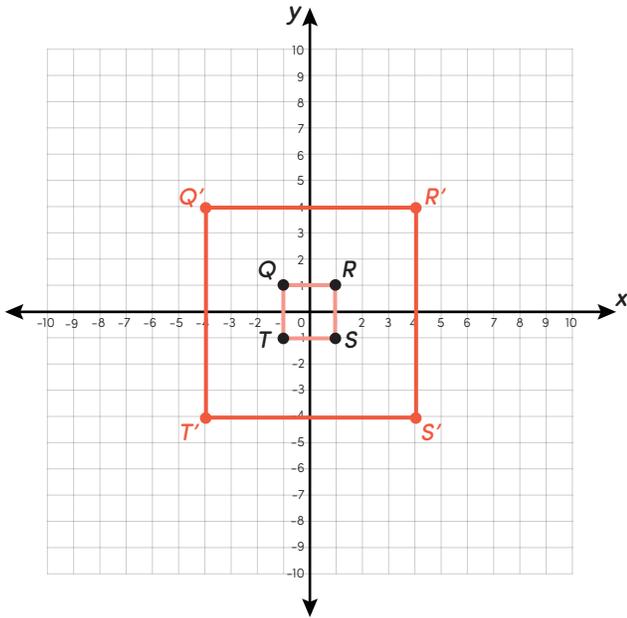


# Dilations on the Coordinate Plane

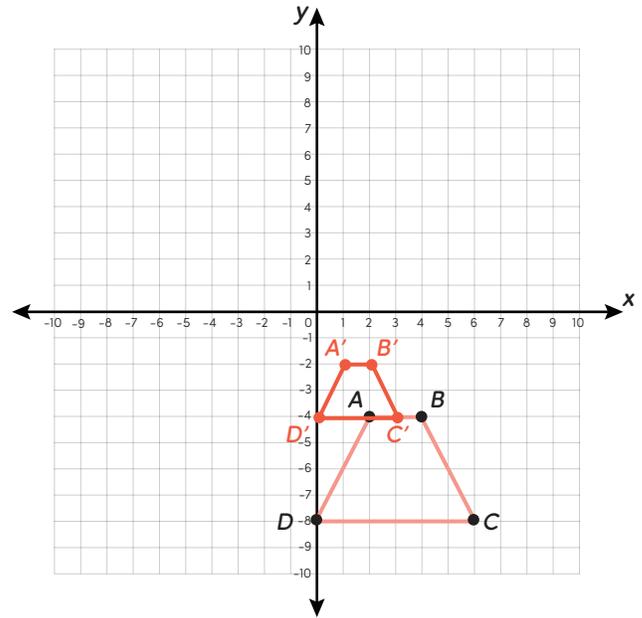


Keep going! Graph the image of each figure by completing the given dilation.

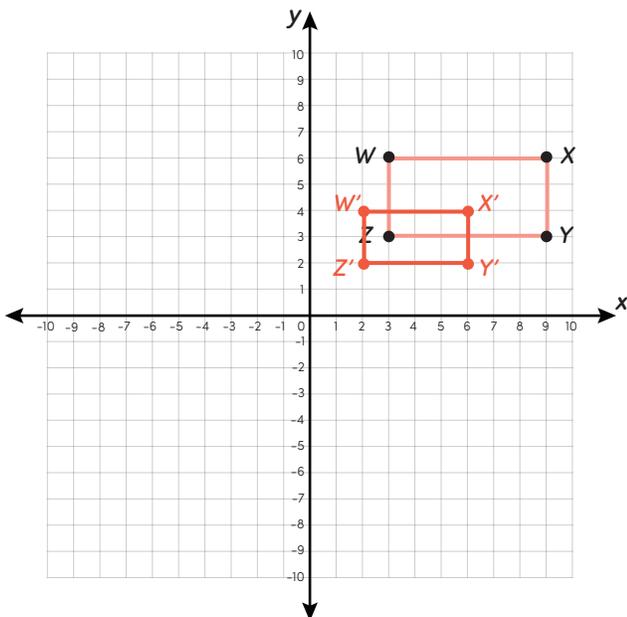
Graph the image of square  $QRST$  after a dilation with a scale factor of 4, centered at the origin.



Graph the image of trapezoid  $ABCD$  after a dilation with a scale factor of  $\frac{1}{2}$ , centered at the origin.



Graph the image of rectangle  $WXYZ$  after a dilation with a scale factor of  $\frac{2}{3}$ , centered at the origin.



Graph the image of parallelogram  $JKLM$  after a dilation with a scale factor of 2, centered at the origin.

