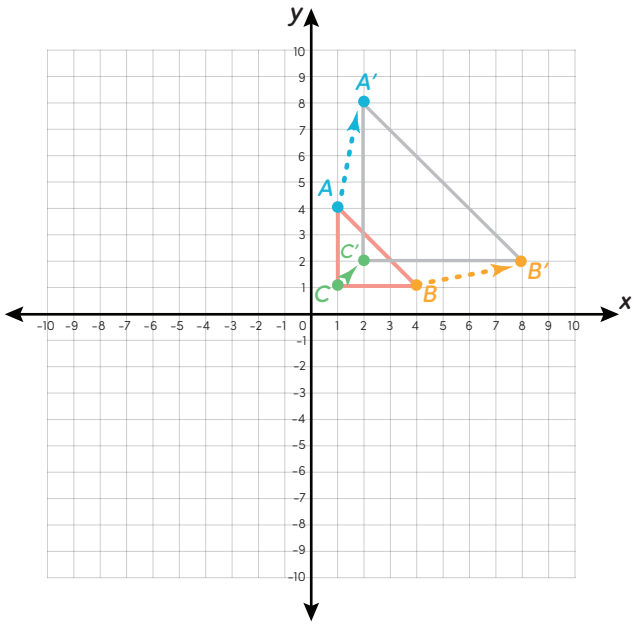
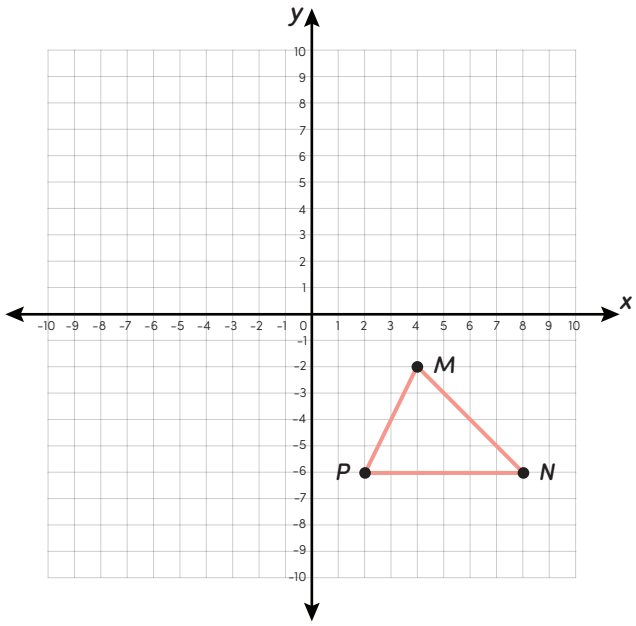
Dilations on the Coordinate Plane

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.

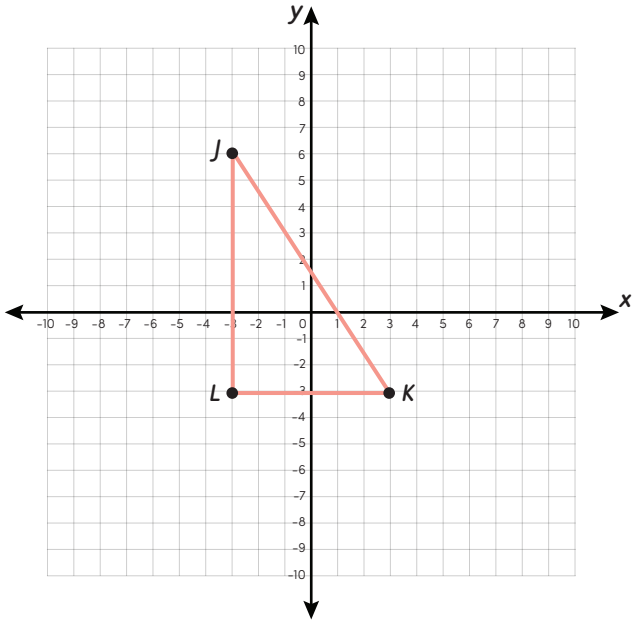
Graph the image of $\triangle ABC$ after a dilation with a scale factor of 2, centered at the origin.



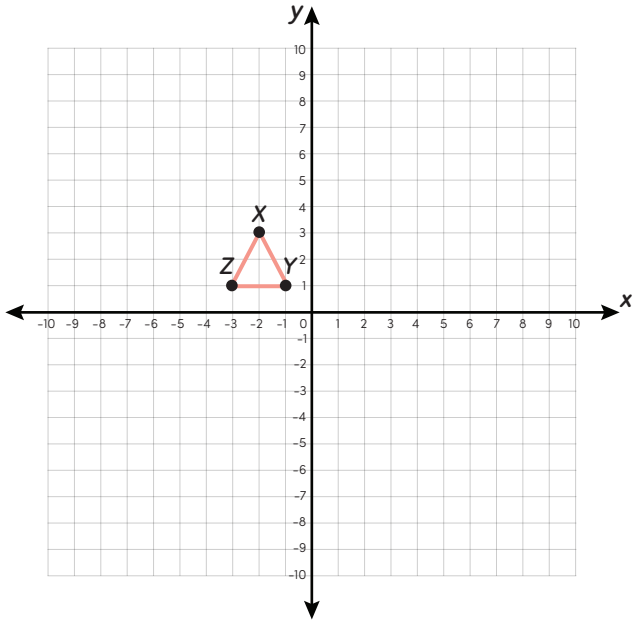
Graph the image of $\triangle MNP$ after a dilation with a scale factor of $\frac{1}{2}$, centered at the origin.



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.



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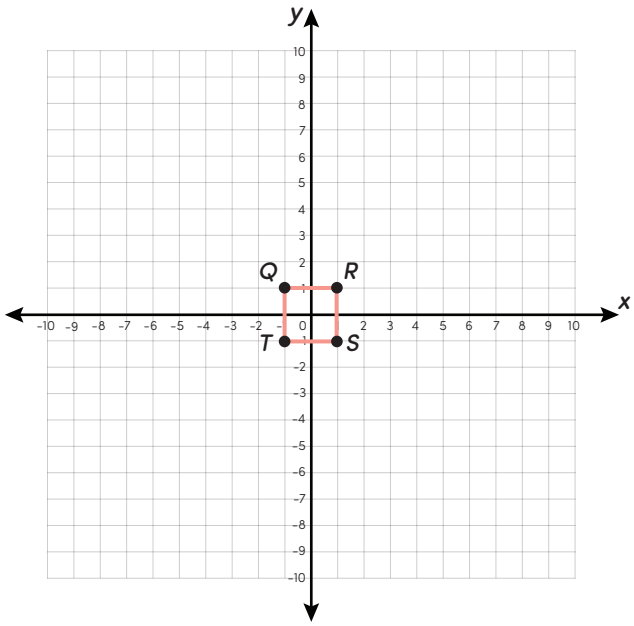
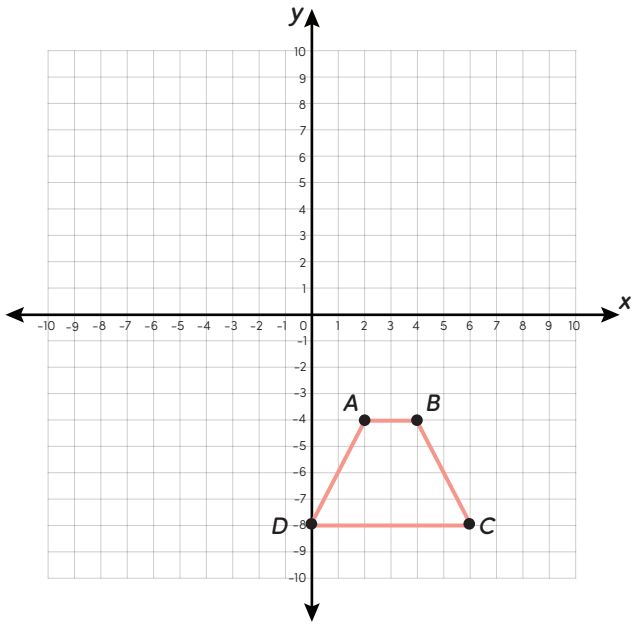
Keep going! Graph the image of each figure by completing the given dilation.

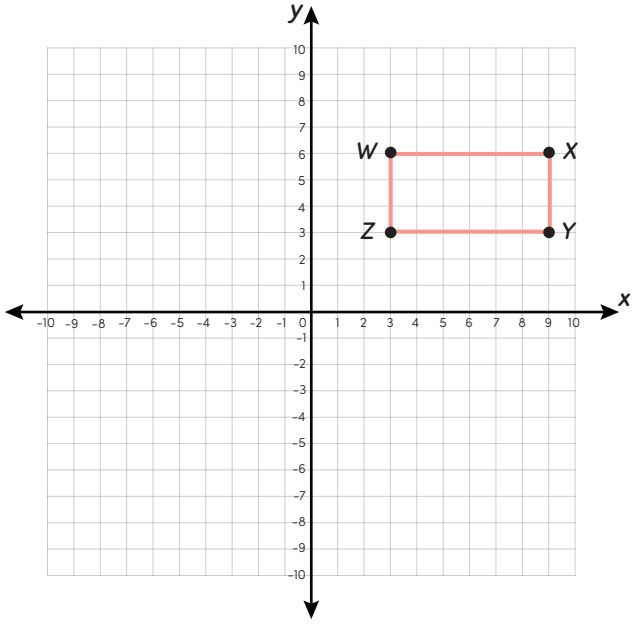
Graph the image of square *QRST* after a dilation with a scale factor of 4, centered at the origin.



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.