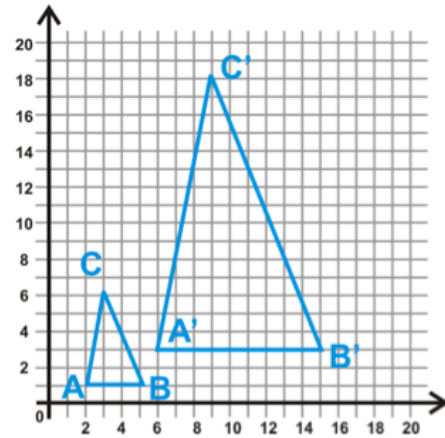




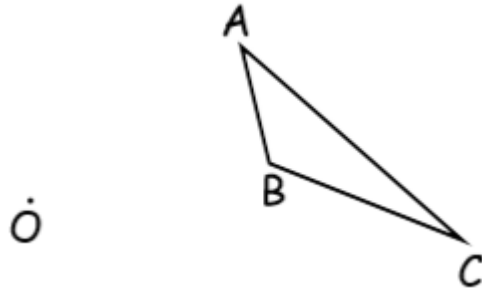
Do Now:

1. What transformation is shown in the graph?
2. How much is $\triangle ABC$ enlarged by?
Explain how you know.

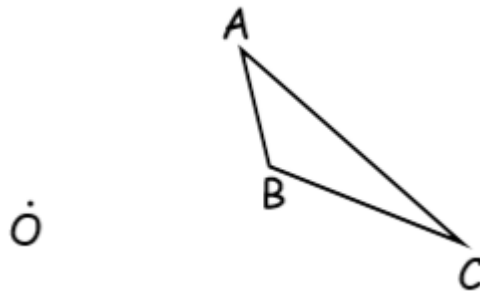


Dilating Images off the Coordinate Plane

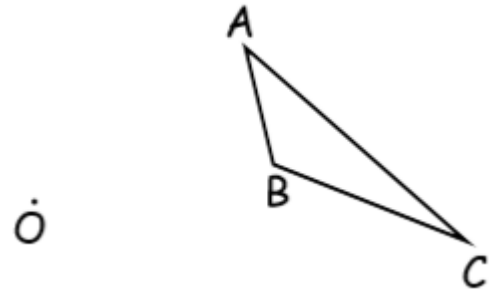
1. Given center O and scale factor $k=2$, construct the image of $\triangle ABC$.



2. Given center O and scale factor $k=1/2$, construct the image of $\triangle ABC$.



3. How can we construct a Dilation with a negative scale factor? (ex. $K = -2$)

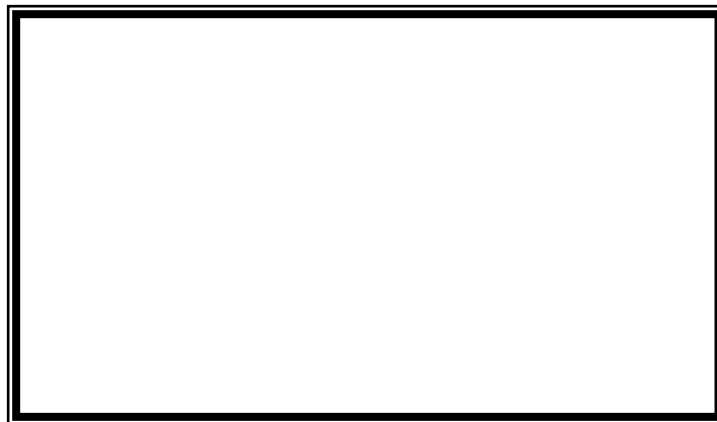


Properties **Preserved** under a Dilation

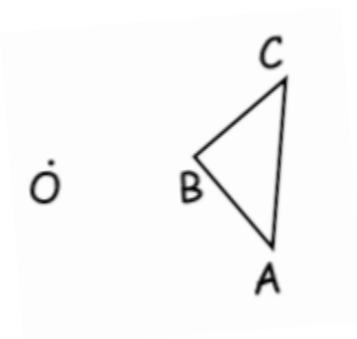
1. _____
2. _____
3. _____



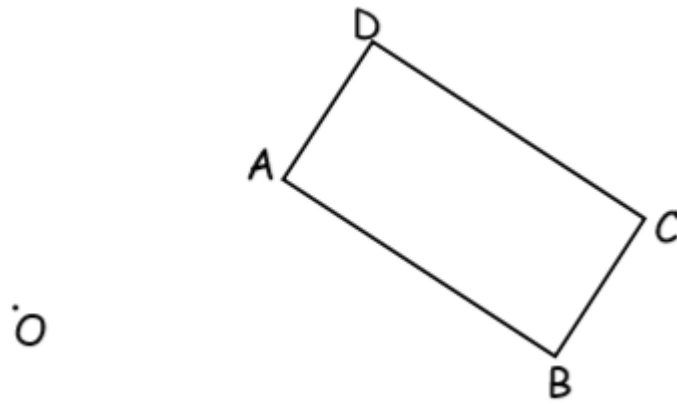
Not Preserved - _____ 



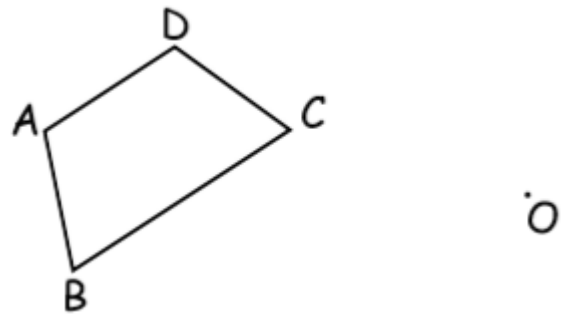
1. Construct $\triangle ABC$ after the transformation D_3 . Label it $A'B'C'$.



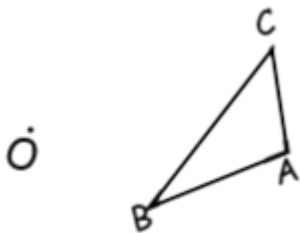
2. Construct ABCD after the transformation $D_{1/2}$. Label it A'B'C'D'.



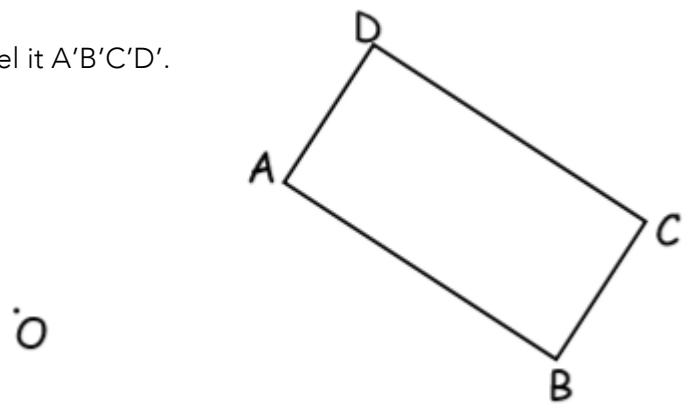
3. Construct ABCD after the transformation D_2 . Label it A'B'C'D'.



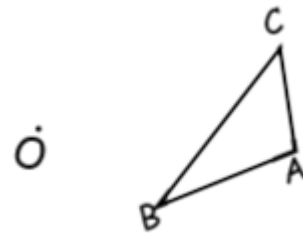
4. Construct $\triangle ABC$ after the transformation D_4 . Label it A'B'C'.



5. Construct ABCD after the transformation D_{-1} . Label it A'B'C'D'.



6. Construct $\triangle ABC$ after the transformation D_{-2} . Label it A'B'C'.



7. Construct $\triangle ABC$ after the transformation $D_{-1/2}$. Label it A'B'C'.

