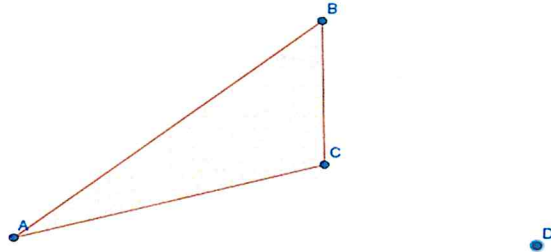


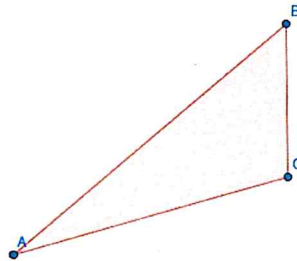
- 1) Use your tools to dilate  $\triangle ABC$  by a scale factor of 2 to locate  $\triangle A'B'C'$  from center of dilation D. Show measurements to justify. Which sides are parallel?

OR USE COMPASS.



List parallel sides below:

- 2) For the same  $\triangle ABC$ , locate a center of dilation for which not all of corresponding sides will be parallel. Use tools to construct a dilation by a factor of 1.5 to demonstrate.



3) For triangles  $ABC$  and  $A'B'C'$  below, locate the center of dilation that transforms  $\triangle ABC$  to  $\triangle A'B'C'$  and find the scale factor. Show measurements to justify your answer.

