Do Now: Constructions practice
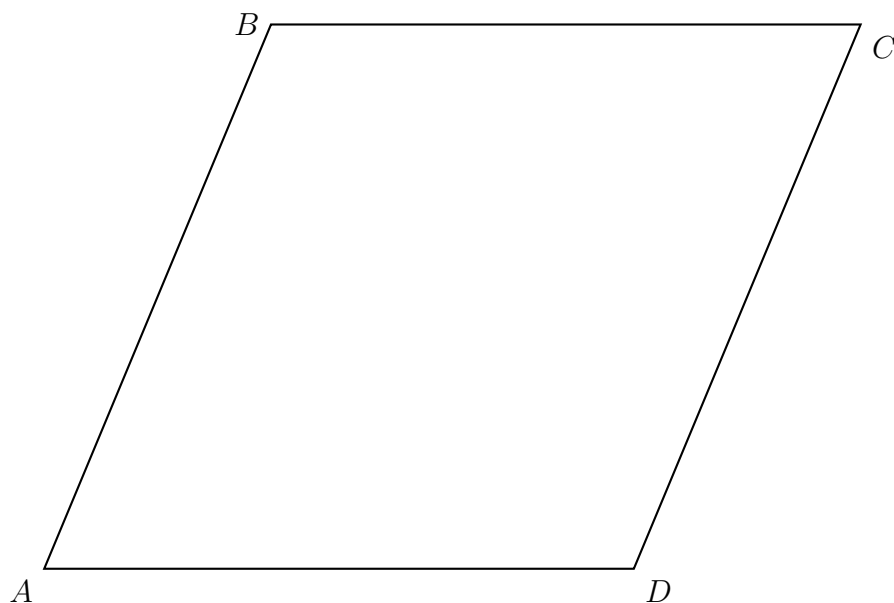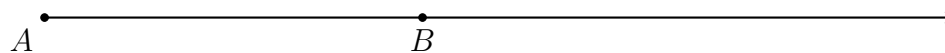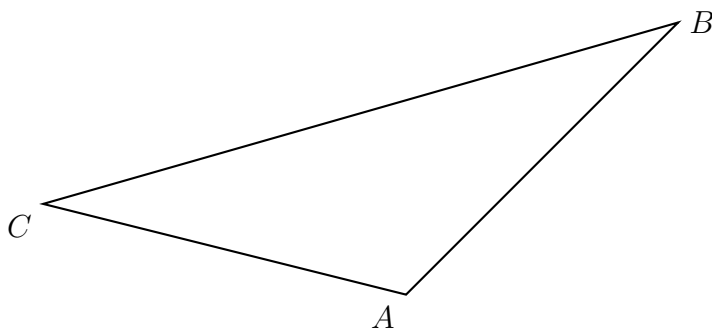
1. Using a compass and straightedge, construct the angle bisector of $\angle B$, one of the vertices of the rhombus $ABCD$.

2. Using a compass and straightedge, construct a line segment $\overline{AC}$ on the ray $\overrightarrow{AB}$ that is twice the length of $\overline{AB}$.

3. Using a compass and straightedge, construct M, the midpoint of $\overline{AB}$. Then draw the median $\overline{CM}$.

4. Using a compass and straightedge, dilate $\triangle ABC$ by a scale factor of 2 centered at A.

Construct line segment $\overline{AB'}$ that is twice the length of $\overline{AB}$ and $\overline{AC'}$ that is twice the length of $\overline{AC}$. Draw $\overline{A'B'}$ to complete the desired triangle, $\triangle AB'C'$.