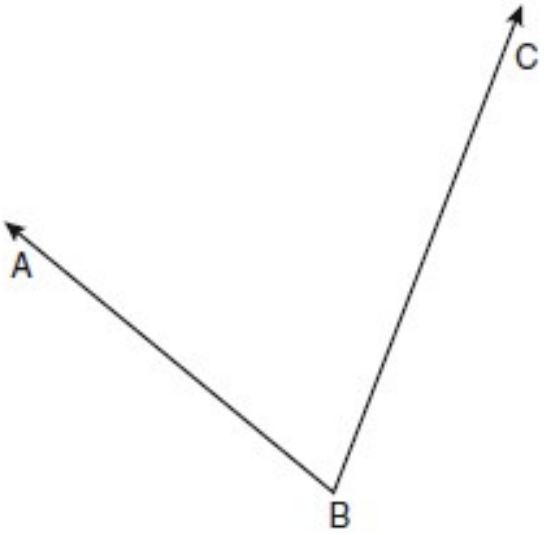
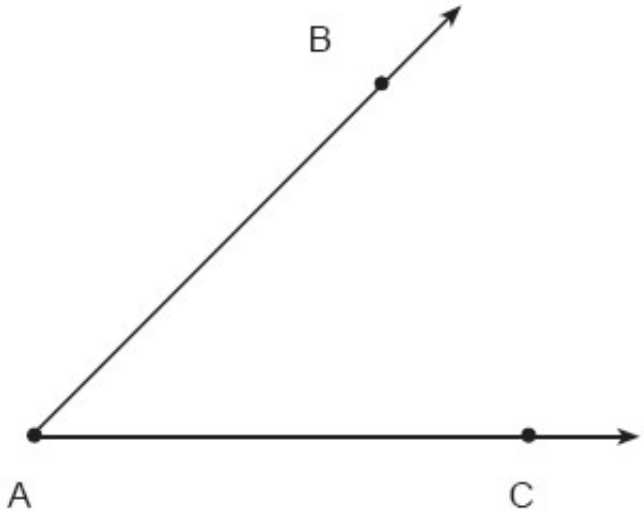
Name _____ Date _____
Mr. Schlansky Geometry

Constructing Bisectors

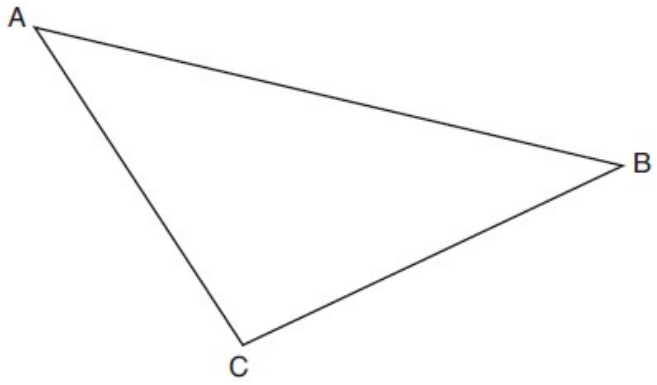
1. Using a compass and straightedge, construct the angle bisector of $\angle ABC$ shown below. [Leave all construction marks.]



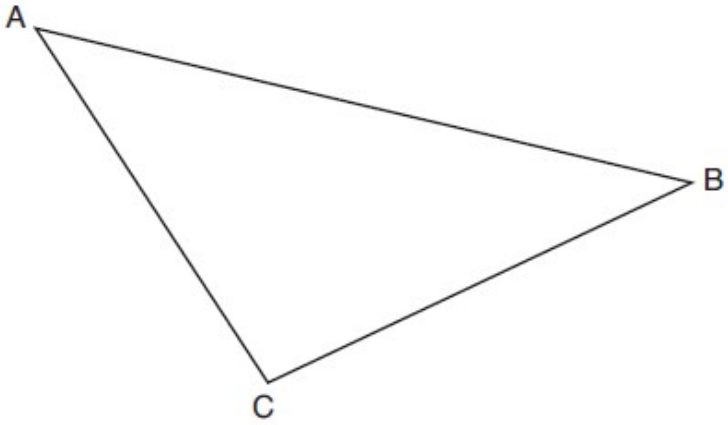
2. Using only a ruler and compass, construct the bisector of angle BAC in the accompanying diagram.



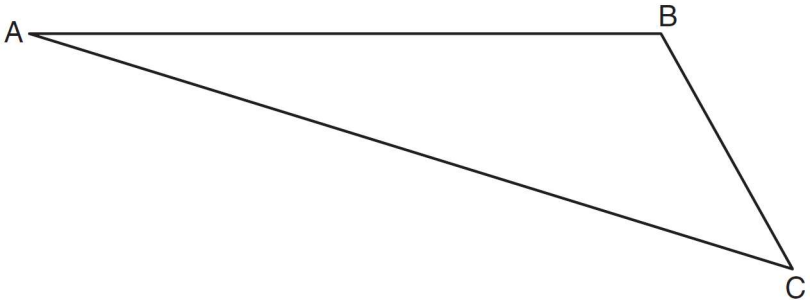
3. Using a compass and straightedge, construct the angle bisector of $\angle ACB$ in $\triangle ABC$ below. [Leave all construction marks.]



4. Using a compass and straightedge, construct the angle bisector of $\angle ABC$ in $\triangle ABC$ below. [Leave all construction marks.]



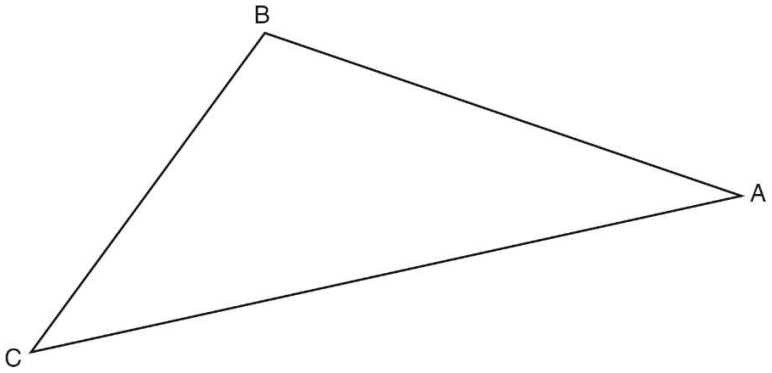
5. Using a compass and straightedge, construct the angle bisector of $\angle BAC$ in $\triangle ABC$ below. [Leave all construction marks.]



6. Using only a compass and a straightedge, construct the perpendicular bisector of $\overline{AB}$ and label it *c*. [Leave all construction marks.]

7. Using a compass and straightedge, construct the perpendicular bisector of $\overline{AB}$ shown below. Show all construction marks.

8. Using a compass and straightedge, construct a perpendicular bisector to side AC. [Leave all construction marks.]



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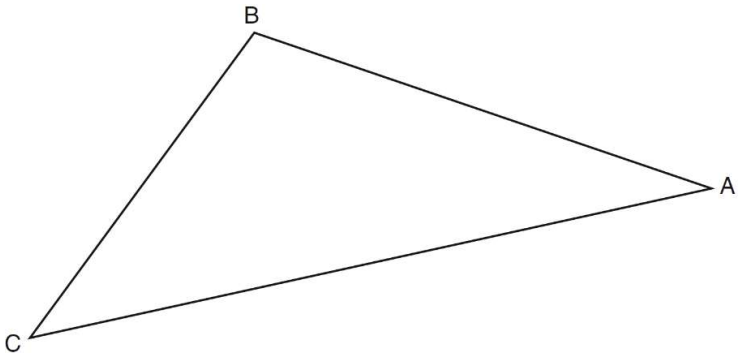
9. Using a compass and straightedge, construct a perpendicular bisector to side BC. [Leave all construction marks.]



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10. On the diagram of $\triangle ABC$ shown below, use a compass and straightedge to construct a perpendicular bisector to side BC. [Leave all construction marks.]