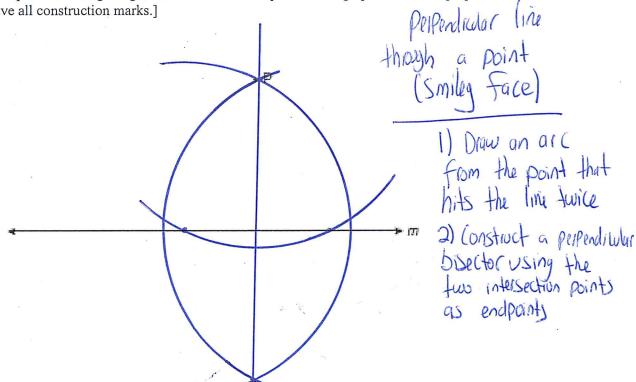
Sch	lansla
Name	lansky
Mr. Schlansky	

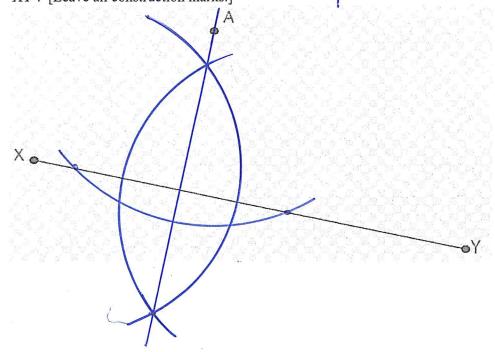
Date ______
Geometry

Constructions Using Perpendicular Bisector

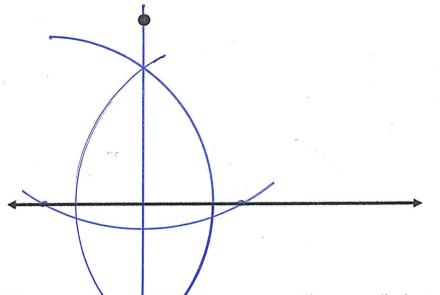
1. Using a compass and straightedge, construct a line that passes through point P and is perpendicular to line m. [Leave all construction marks.]



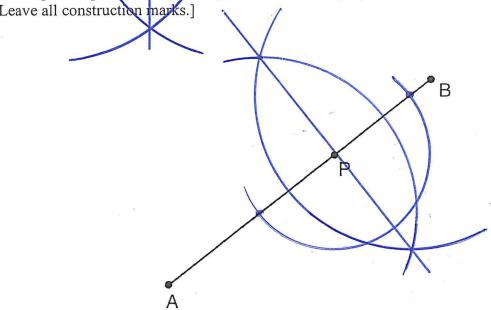
2. Using a compass and straightedge, construct a line that passes through point A and is perpendicular to \overline{XY} . [Leave all construction marks.]



3. Using a compass and a straightedge, construct a line perpendicular to the given line that passes through the given point.



4. Using a compass and straightedge, construct a line perpendicular to \overline{AB} through point P. [Leave all construction marks.]

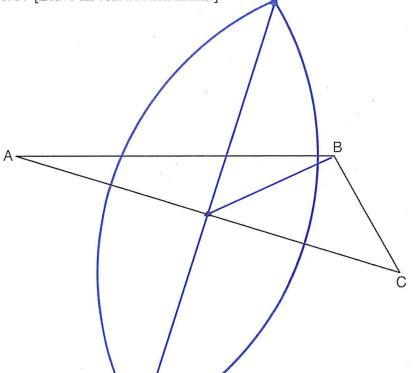


median

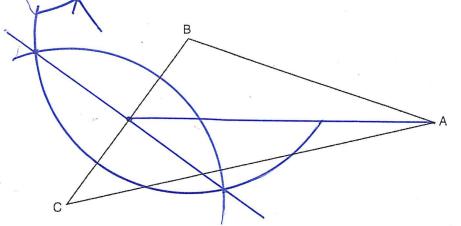
1) construct a perpendicular bisector of the side

2) Connect the midpoint to the opposite vertex

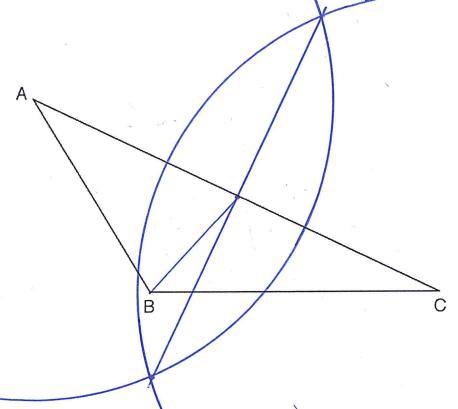
5. On the diagram of $\triangle ABC$ shown below, use a compass and straightedge to construct a median to side \overline{AC} . [Leave all construction marks.]



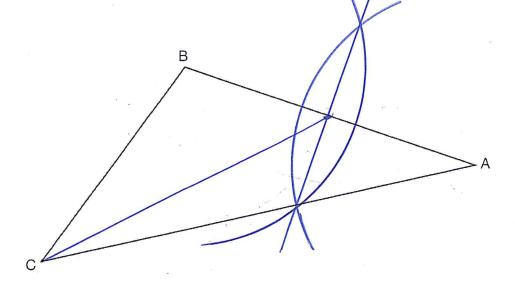
6. Using a compass and straightedge, construct a median to side BC. [Leave all construction marks.]



7. On the diagram of $\triangle ABC$ shown below, use a compass and straightedge to construct a median to side \overline{AC} . [Leave all construction marks.]



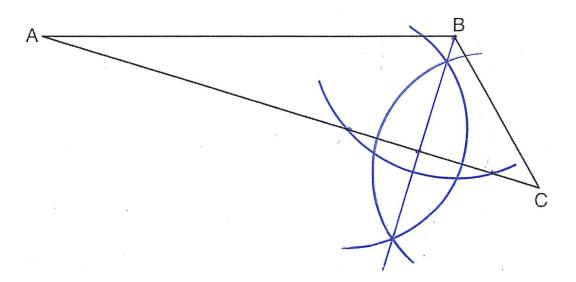
8. Using a compass and straightedge, construct a median to side AB. [Leave all construction marks.]



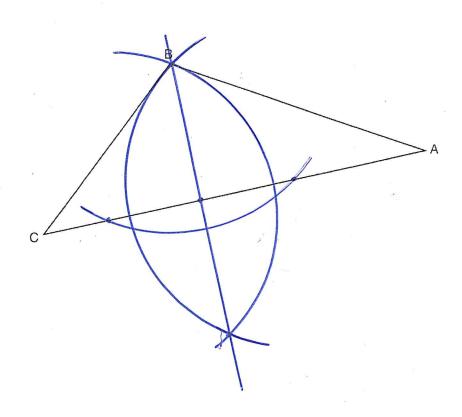
altitude

1) Draw a "Smiley Face" from the vertex
2) Construct a perpendicular bisector using the points of intersection

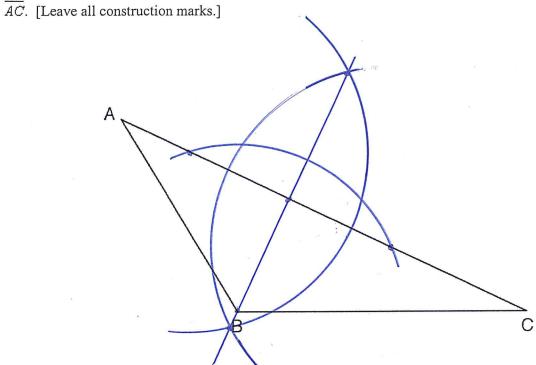
9. On the diagram of $\triangle ABC$ shown below, use a compass and straightedge to construct an altitude from B to side \overline{AC} . [Leave all construction marks.]



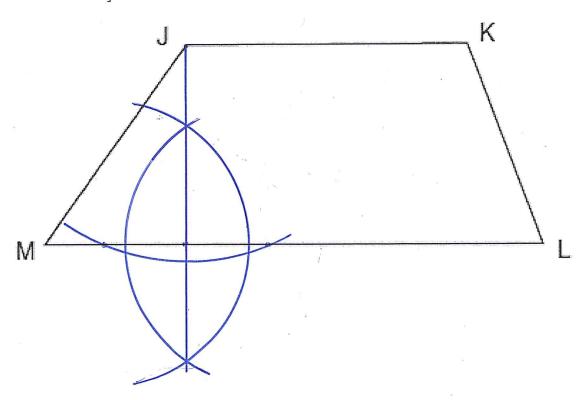
10. Using a compass and straightedge, construct an altitude from B to side AC. [Leave all construction marks.]



 $\underline{11}$. On the diagram of $\triangle ABC$ shown below, use a compass and straightedge to construct a-median to side



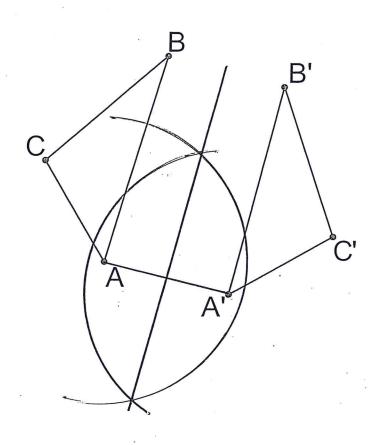
12. Given: Trapezoid JKLM with $\overline{JK} \parallel \overline{ML}$ Using a compass and straightedge, construct the altitude from vertex J to \overline{ML} . [Leave all construction marks.]



Line of reflection

1) Connect any point to its image 2) Construct a perpendicular bisector of that segment

Find the line of reflection for each of the following sets of diagrams 13.



14.

