FM Geometry Name: _____

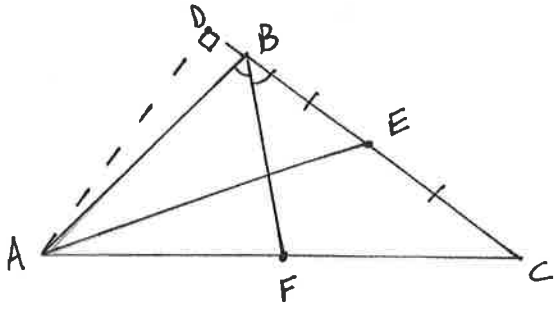
Chapter 4 Review Date: _____ Pd: _____

1. Name the following from the diagram.

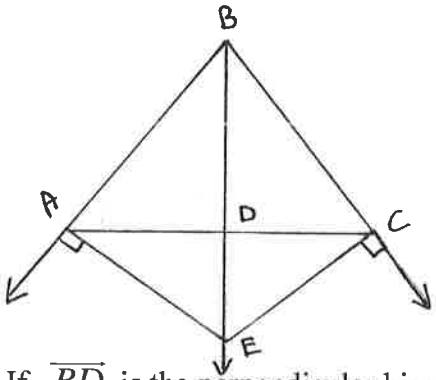
Median: _____

Altitude: _____

Angle Bisector: _____



2. Use the diagram below to fill in the blanks.



A. If $\overline{BD}$ is the perpendicular bisector of $\overline{AC}$, then _____

by the _____.

B. If $AE = EC$, then _____

by the _____.

C. If $DC = DA$, then D is the _____ of $\overline{AC}$ and $\overline{BD}$ is a

_____ of $\triangle ABC$.

D. If $\overline{AB} \cong \overline{BC}$, then $\angle A \cong \angle C$ by the _____.

E. If $\overline{BD}$ is both an _____ and a _____,

Then $\triangle ABC$ is an _____ triangle.

3. In the diagram, $\overline{RX}$ is the angle bisector of $\angle R$. Find QX and $m\angle QRP$. Provide a reason for any equation you write. Show all work to justify your answers.

$QX = y^2 - 2y$

$PX = 5y + 30$

$m\angle QRP = 3x^2 - 2$

$m\angle XRP = 8x - 9$