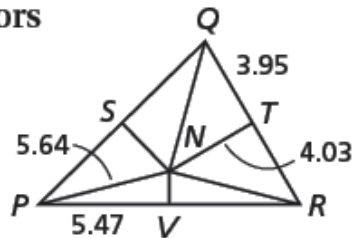# Green Textbook
p323 #3-10 and p329 #3-9, 29-32

Please complete in your notes for self grade due Thursday

$\overline{SN}$, $\overline{TN}$, and $\overline{VN}$ are the perpendicular bisectors of $\triangle PQR$. Find each length.

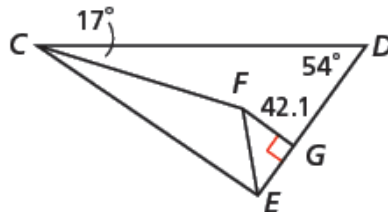3. NR

4. RV

5. TR

6. QN

Multi-Step Find the circumcenter of a triangle with the given vertices.

7. $O(0, 0)$, $K(0, 12)$, $L(4, 0)$

8. $A(-7, 0)$, $O(0, 0)$, $B(0, -10)$

$\overline{CF}$ and $\overline{EF}$ are angle bisectors of $\triangle CDE$. Find each measure.
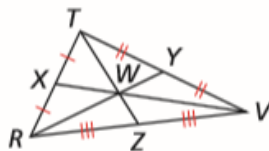
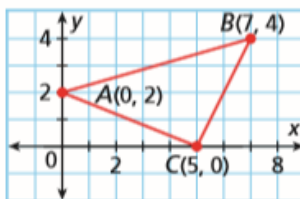9. the distance from F to $\overline{CD}$

10. $m\angle FED$

$VX = 204$, and $RW = 104$. Find each length.

3. VW

4. WX

5. RY

6. WY

7. **Design** The diagram shows a plan for a piece of a mobile. A chain will hang from the centroid of the triangle. At what coordinates should the artist attach the chain?

Multi-Step Find the orthocenter of a triangle with the given vertices.

8. $K(2, -2)$, $L(4, 6)$, $M(8, -2)$

9. $U(-4, -9)$, $V(-4, 6)$, $W(5, -3)$

Find each length.

29. PZ

30. PX

31. QZ

32. YZ