

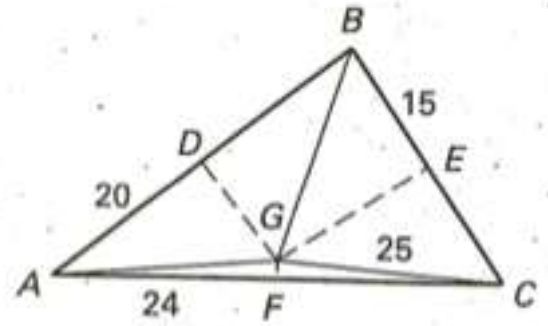
Name _____

Date _____ Block _____

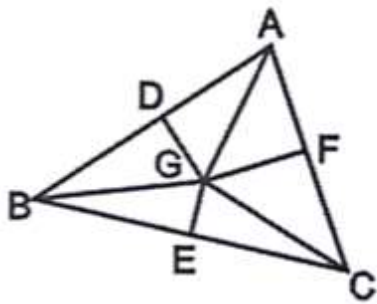
5.3 Circumcenter

In the diagram, the perpendicular bisectors of $\triangle ABC$ meet at point G and are shown dashed. Find the indicated measure.

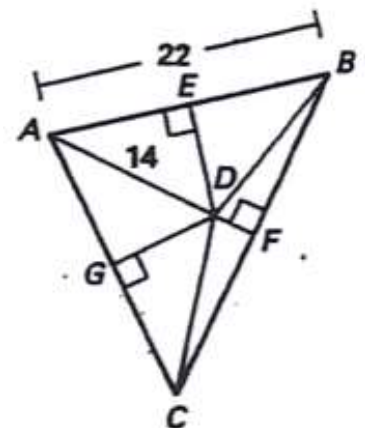
1. Find AG .
2. Find BD .
3. Find CF .
4. Find BG .
5. Find CE .
6. Find AC .



7. The perpendicular bisectors of $\triangle ABC$ meet at point G . If $\overline{BC} = 12$, $\overline{AD} = 6$, and $\overline{GE} = 3$, find GA , BE , AB , and GC .



8. The perpendicular bisectors of triangle ABC meet at point D . Find DB and AE .



Use the diagram shown. E is the circumcenter of triangle ABC.

9. $\overline{DA} \cong$ _____

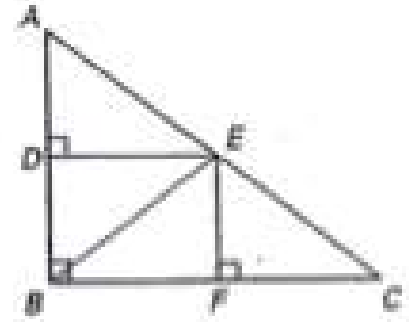
10. $\overline{BF} \cong$ _____

11. $\overline{DA} \cong$ _____

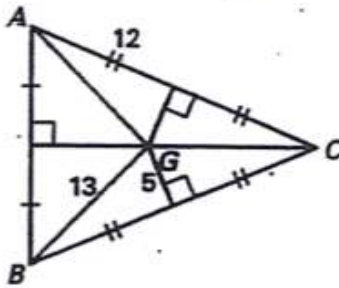
12. $\angle EFC \cong$ _____

13. $\overline{BE} \cong$ _____ and _____

14. If $AD=6$, $BF=8$, and $CE=10$, what is the perimeter of triangle ABC?



15. a) The perpendicular bisectors of $\triangle ABC$ meet at point G. Find GA.



b) The perpendicular bisectors of $\triangle XYZ$ meet at point P. Find PX.

