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## Practice A

For use with pages 272-278

Use the diagram shown. $E$ is the circumcenter of $\triangle A B C$.

1. $\overline{D A} \cong$ $\qquad$
2. $\overline{E A} \cong$ ?
3. $\angle E F C \cong$ $\qquad$
4. $\overline{B E} \cong$ ? and ?
5. If $A D=6, B F=8$, and $C E=10$, what is
 the perimeter of $\triangle A B C$ ?


## Decide whether the statement is true or false. Illustrate your answer with a sketch.

11. The angle bisector of a triangle could also be the perpendicular bisector.
12. The angle bisectors of a triangle always intersect inside the triangle.
13. The perpendicular bisectors of a triangle always intersect inside the triangle.
14. The circumcenter is the center of the inscribed circle of a triangle.

Find the indicated measure in each exercise.
15. The perpendicular bisectors of $\triangle A B C$ meet at point $G$. Find $G A$.

17. The perpendicular bisectors of $\triangle X Y Z$ meet at point $P$. Find $P X$.

16. The angle bisectors of $\triangle A B C$ meet at point $G$. Find $G D$.

18. The angle bisectors of $\triangle X Y Z$ meet at point $P$. Find $P M$.


