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## Additional Practice

For each given type of triangle, draw the three medians. Then mark the point of concurrence.

1. acute
2. obtuse
3. right

For each given type of triangle, draw the three altitudes. Mark the point of concurrence.
4. acute
5. obtuse
6. right

For each given type of triangle, draw the three angle bisectors. Then mark the point of concurrence.
7. acute
8. obtuse
9. right

For Exercises 10-12, use $\triangle A B C$ where $\overline{A E}, \overline{C D}$, and $\overline{B F}$ are medians.
10. If $F B=12$, find $F G$.
11. If $G C=10$, find $D C$.
12. If $G E=x$, find $A E$.

13. What type of triangle has three medians that are also the altitudes and the angle bisectors? Justify your answer with a diagram.
14. Prove that the medians drawn to the legs of an isosceles triangle are congruent.
15. Given: Right $\triangle J L K ; \overline{A B}$ is the perpendicular bisector of $\overline{L K}$. Prove: $\overline{L A}$ is a median.

16. Draw right scalene $\triangle A B C$ with right $\angle C$. Then draw median $\overline{C D}$ from $\angle C$ to $\overline{A B}$.
a. Which segments appear to be congruent to median $\overline{C D}$ ?
b. Draw midline $\overline{D E}$. Are there any congruent triangles in your drawing? Prove your answer.
c. Are there any similar triangles in your drawing? Prove your answer.

