Additional Practice

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

Class_

2. obtuse **3.** right **1.** acute

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.

8. obtuse

 \overline{AE} , \overline{CD} , and \overline{BF} are medians. **10.** If FB = 12, find *FG*. G **11.** If GC = 10, find *DC*. **12.** If GE = x, find AE.

13. What type of triangle has three medians that are also the altitudes and the angle bisectors? Justify your answer with a diagram.

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- **14.** Prove that the medians drawn to the legs of an isosceles triangle are congruent.
- **15.** Given: Right $\triangle JLK$; \overline{AB} is the perpendicular bisector of \overline{LK} . Prove: \overline{LA} is a median.

For Exercises 10–12, use $\triangle ABC$ where



- **a.** Which segments appear to be congruent to median \overline{CD} ?
- **b.** Draw midline \overline{DE} . Are there any congruent triangles in your drawing? Prove your answer.
- **c.** Are there any similar triangles in your drawing? Prove your answer.



R

9. right

7. acute

Date