NAME _____ DATE _____

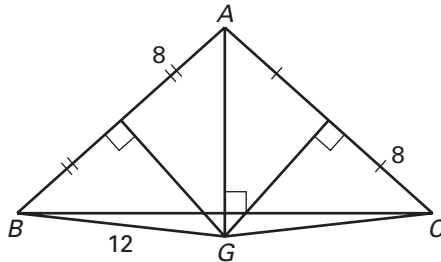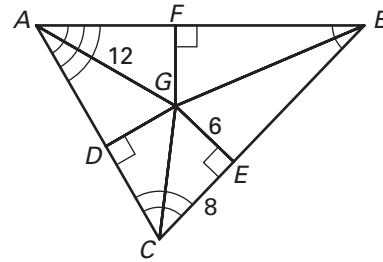## *Practice C*

For use with pages 272–278

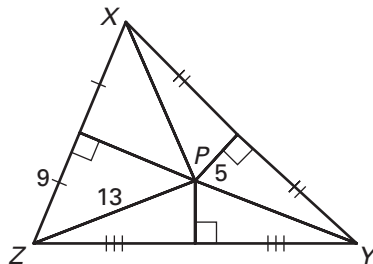### Find the indicated measure in each exercise.

1. The perpendicular bisectors
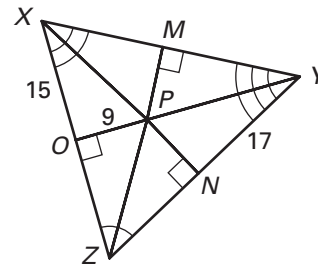of △ABC meet at point *G*. Find *GA*.

2. The angle bisectors of △ABC
meet at point *G*. Find *GD*.

3. The perpendicular bisectors
of △XYZ meet at point *P*. Find *PX*.

**4.** The angle bisectors of △XYZ
meet at point *P*. Find *PM*.

Complete the constructions described.

5. Draw a large right isosceles triangle △ABC. Construct the perpendicular
bisector of each side. Label the circumcenter *D*. Measure $\overline{DA}$, $\overline{DB}$, and $\overline{DC}$.

6. Draw a large obtuse isosceles triangle △ABC. Construct the bisector of each
angle. Label the incenter *D*. Measure the perpendicular distance
from point *D* to each side of the triangle.

Write a two-column or a paragraph proof.

7. Given: △ABC ≅ △ADC

$\overline{CE}$ bisects ∠BCA.

$\overline{CF}$ bisects ∠DCA.

Prove: △CEA ≅ △CFA
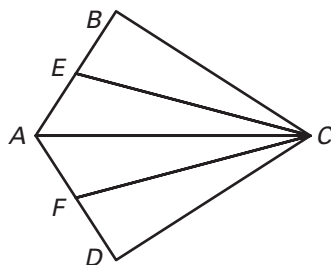
8. Given: Isosceles △ABC with $\overline{AB} \cong \overline{AC}$

$\overline{GD}$ is perpendicular bisector of $\overline{AB}$.

$\overline{GE}$ is perpendicular bisector of $\overline{AC}$.

Prove: △GDB ≅ △GEC