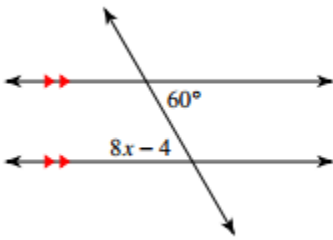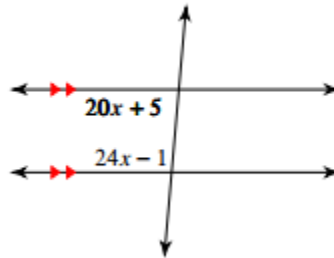Name: _____

1. Name a pair of angles that are alternate interior angles.

2. Name a pair of angles that are alternate exterior angles.

3. Name a pair of angles that are corresponding.

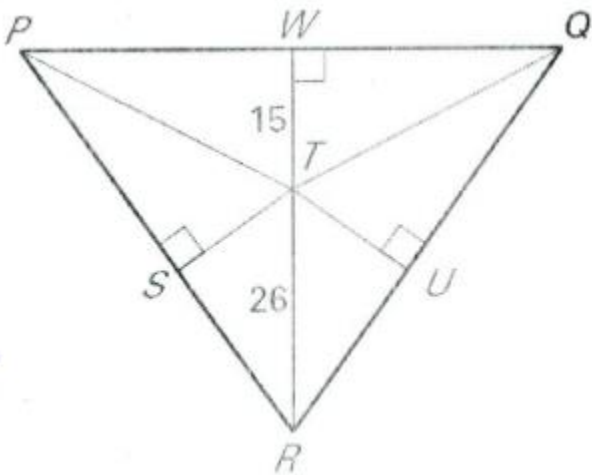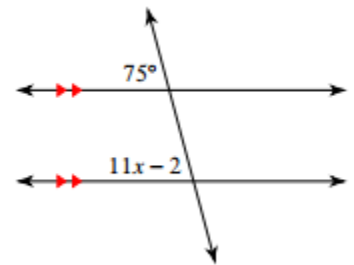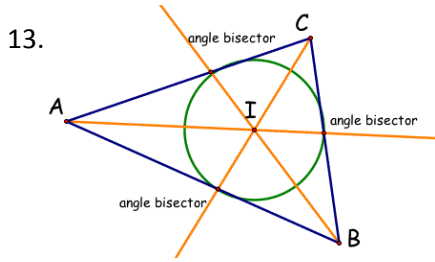4. Name a pair of angles that are supplementary.
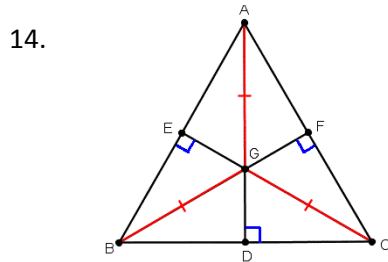
Solve for x.

5.

6.

7.

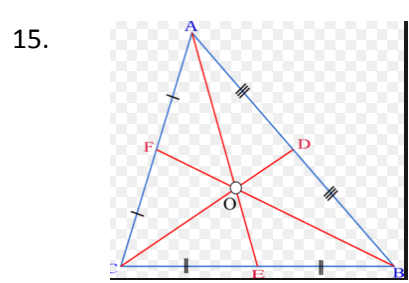**Point T is the incenter of ΔPQR.**

8. If point T is the incenter, then point T is the point of concurrency of the _____.

9. ST = _____.

10. If TU = (2x − 1), find x.

11. If $m\angle PRT = 24°$, then $m\angle QRT =$ _____.
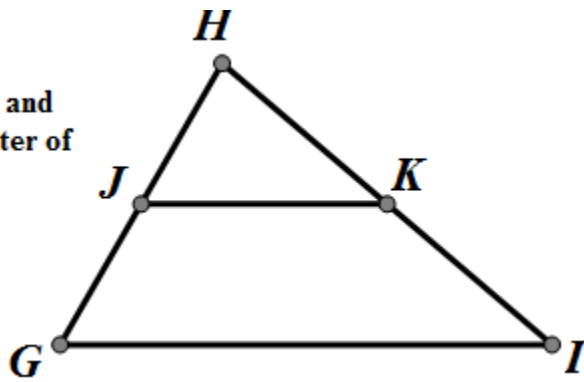
12. If $m\angle RPQ = 62°$, then $m\angle RPT =$ _____.

Name the point of concurrency for each triangle.

13.

14.

15.

_____   _____   _____

$\overline{JK}$ is the midsegment of $\triangle GHI$. $JK = 5$, $GH = 10$ and $IH = 15$. Find the perimeter of each triangle.

16. $\triangle JKH$

17. $\triangle GIH$

Find the length of each segment in simplest radical form.

18.   (-2, 3), (-7, -7)

19.   (-10, -7), (-8, 1)

20.   (1, 5), (2, -2)

_____   _____   _____