

Point  $T$  is the incenter of  $\triangle PQR$ .

25. If Point  $T$  is the *incenter*, then Point  $T$  is the point of concurrency of

the \_\_\_\_\_.

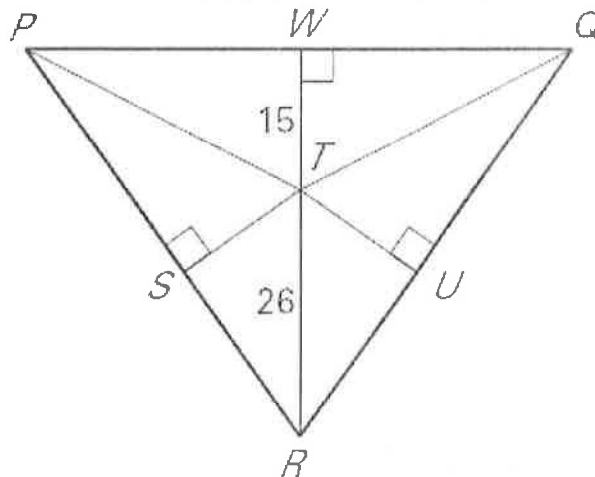
26.  $ST =$  \_\_\_\_\_

27. If  $TU = (2x - 1)$ , find  $x$ .

$x =$  \_\_\_\_\_

28. If  $m\angle PRT = 24^\circ$ , then  $m\angle QRT =$  \_\_\_\_\_

29. If  $m\angle RPQ = 62^\circ$ , then  $m\angle RPT =$  \_\_\_\_\_



Point  $G$  is the centroid of  $\triangle ABC$ ,  $AD = 8$ ,  $AG = 10$ ,  $BE = 10$ ,  $AC = 16$  and  $CD = 18$ . Find the length of each segment.

30. If Point  $G$  is the *centroid*, then Point  $T$  is the point of concurrency of

the \_\_\_\_\_.

31.  $DB =$  \_\_\_\_\_

32.  $EA =$  \_\_\_\_\_

33.  $CG =$  \_\_\_\_\_

34.  $BA =$  \_\_\_\_\_

35.  $GE =$  \_\_\_\_\_

36.  $GD =$  \_\_\_\_\_

37.  $BC =$  \_\_\_\_\_

38.  $AF =$  \_\_\_\_\_

