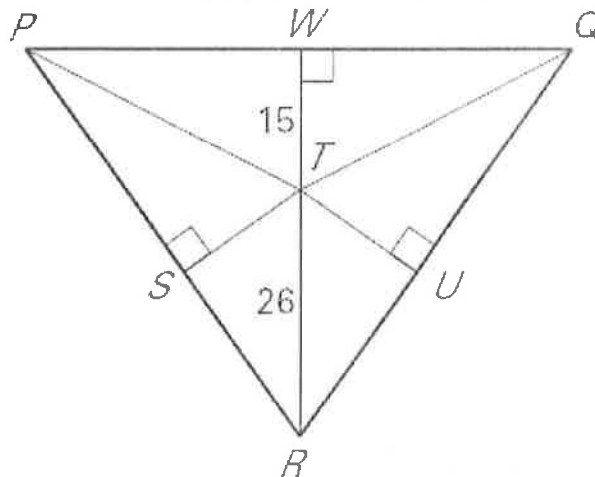


Point T is the incenter of $\triangle PQR$.



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

the _____.

26. $ST =$ _____

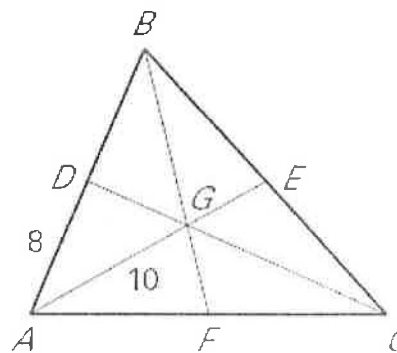
27. If $TU = (2x - 1)$, find x .

$x =$ _____

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. $BA =$ _____

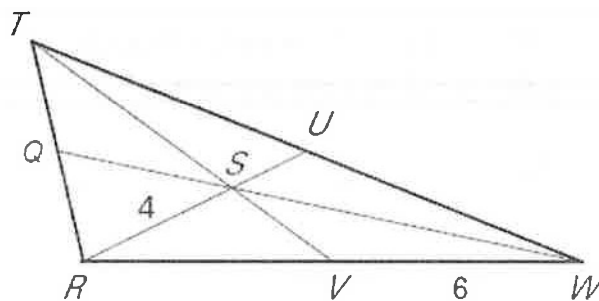
35. $GE =$ _____

36. $GD =$ _____

37. $BC =$ _____

38. $AF =$ _____

Point S is the centroid of $\triangle RTW$, $RS = 4$, $VW = 6$, and $TV = 9$. Find the length of each segment.



39. $RV =$ _____

40. $SU =$ _____

41. $RU =$ _____

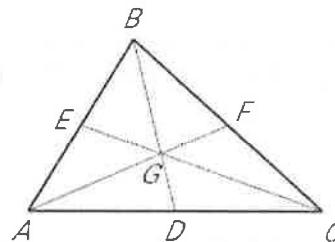
42. $RW =$ _____

43. $TS =$ _____

44. $SV =$ _____

Point G is the centroid of $\triangle ABC$. Use the given information to find the value of the variable.

45. $FG = x + 8$ and $GA = 6x - 4$



$x =$ _____

46. If $CG = 3y + 7$ and $CE = 6y$

$y =$ _____