1. If m<PQR = 73 and m<PQS = x², and m<SQR = 85 - 8x, find m<SQR.
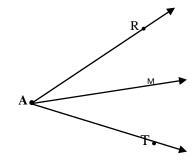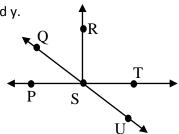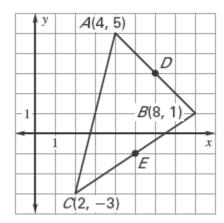
2. If m<RAM = 5x −2 and m<MAT = 4x + 3, find m<RAT.
    $\overline{AM}$ bisects <RAT.

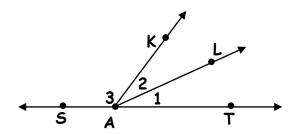3. $\overline{RS} \perp \overline{PT}$, m∠PSQ=(3x+8y)°, m∠QSR=(9x+y)° and m∠TSU=(5x+2y)° Find x and y.

4. Find the length of the median $\overline{CD}$

5. $\overrightarrow{AL}$ bisects ∠KAT, m∠2 = 3x+10, m∠3 = 9x+40. Find x.   x = _____

6. Determine the CONVERSE of the following if-then statement.

   "If three points are noncollinear, then they form a triangle."

   A. Three points are noncollinear if and only if they form a triangle.

   B. If three points are not noncollinear, then they do not form a triangle.

   C. If three points form a triangle, then they are noncollinear.

   D. If three points do not form a triangle, then they are not noncollinear.

7. Give a counterexample to disprove the following statement:

   "If a number is divisible by 5, then it is divisible by 10"

   _____

8. Point A is between points L and C on $\overline{LC}$. If LA = x + 3 and AC = 6x, and LC = 80, then x = _____

9. Find x.

   2x - 3 4   x + 7

   ∂   0   B