**Segment (and Angle) Relationships Homework #1**

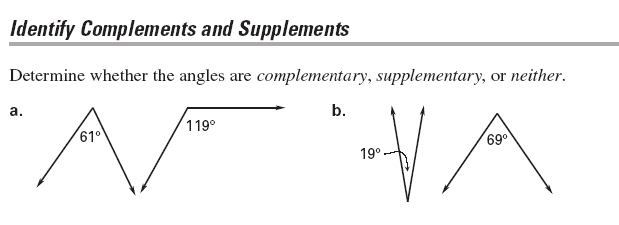
**Find the value of x and SR if R is between S and T. Justify steps!**

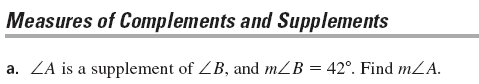
1. 2.

**Find the value of the variable and ST if S is between R and T. Justify steps!**

3. 4.

5.

6.



7.



**Decide whether the statement is *true or false*. If the statement if false, reword the statement so it is true.**

8. Two angles are complementary if the sum of their measures is 180°

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9. Two angles are supplementary if the sum of their measures is 180°

10. Two angles are adjacent angles if they share a common vertex.

**Determine whether the angles are complementary, supplementary or neither.**



11. 12. 13.

**Find the measure of the complement of the given angle.**



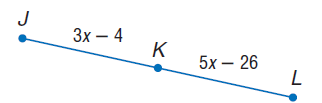
14. 15. 16.

**Find the measure of the supplement of the given angle.**



17. 18. 19.

20. Find x and the measure of if K is the midpoint of . Show work.



**Find the value of the variable and QR if Q is between P and R. Justify steps!**

21.

22.