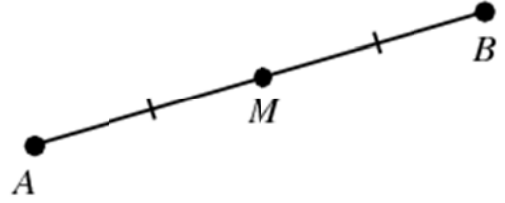


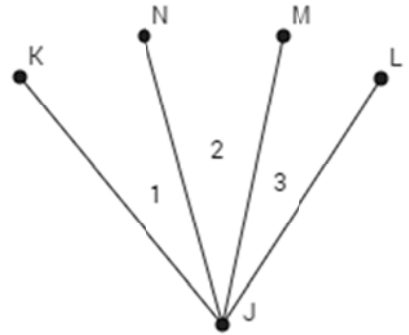
Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

2.5-6 Proofs about Segments, Angles and Geometric Relationships

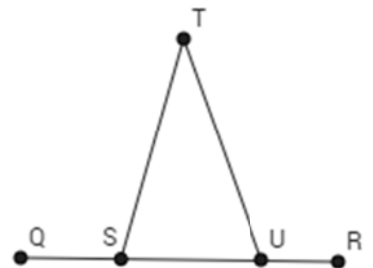
1) Prove  $AM = MB$  given  $AB = AM + MB$ .



2) Prove  $m\angle NJL = m\angle KJM$  given  $m\angle 1 = m\angle 3$ .



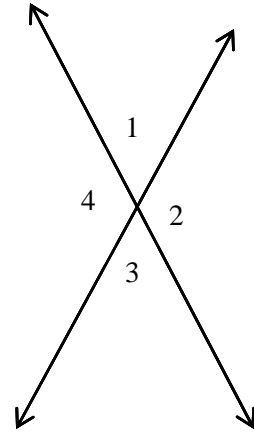
34) Given  $m\angle TSU = m\angle TUS$ , prove  $\angle QST$  and  $\angle TUS$  are supplementary.



5) Given  $CF = EB$  and segment  $EF$  bisects  $AB$  and  $CD$ , prove  $BC = DF$ .

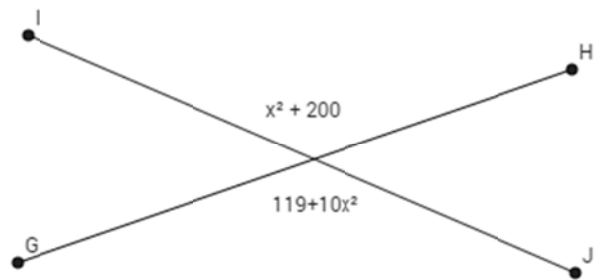


7) Prove the vertical angles theorem. Given two intersecting lines create four angles,  $\angle 2$ ,  $\angle 3$  and  $\angle 4$  and  $\angle 1$  and  $\angle 3$  are vertical, prove they are congruent using the linear pair postulate.



8) Why is the rule for vertical angles a theorem and the rule for linear pairs a postulate?

9) Prove  $x = 3$ .



10) How do you disprove something?