



**For each statement and its next logical conclusion, tell which definition, postulate, or theorem gives the justification.**

1. Given:  $\overline{AM} \cong \overline{WU}$   
 Conclusion:  $AM = WU$

Why: \_\_\_\_\_

2. Given: E is the midpoint of  $\overline{BD}$   
 Conclusion:  $\overline{BE} \cong \overline{ED}$

Why: \_\_\_\_\_

3. Given: A bisects  $\overline{CT}$   
 Conclusion:  $\overline{CA} \cong \overline{AT}$

Why: \_\_\_\_\_

4. Given:  $CO = OL$   
 Conclusion:  $\overline{CO} \cong \overline{OL}$

Why: \_\_\_\_\_

5. Given:  $\angle DAY$  and  $\angle YAK$  are a linear pair.  
 Conclusion:  $\angle DAY$  &  $\angle YAK$  are supplementary

Why: \_\_\_\_\_

6. Given:  $\angle TOM$  is the supplement of  $\angle SUE$   
 Conclusion:  $m\angle TOM + m\angle SUE = 180^\circ$

Why: \_\_\_\_\_

7. Given: A and B lie in Plane JOG  
 Conclusion: A and B are collinear

Why: \_\_\_\_\_

8. Given: A is in the interior of  $\angle GLD$   
 Conclusion:  $m\angle GLA + m\angle ALD = m\angle GLD$

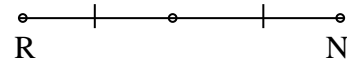
Why: \_\_\_\_\_

9. Given:  $\angle 1$  is the complement to  $\angle 3$   
 Conclusion:  $m\angle 1 + m\angle 3 = 90^\circ$

Why: \_\_\_\_\_

10. Given:  $\angle HAM$  is vertical to  $\angle EAT$   
 Conclusion:  $\angle HAM \cong \angle EAT$

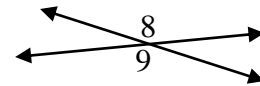
Why: \_\_\_\_\_



11. Given:

Conclusion: U is the midpoint of  $\overline{RN}$

Why: \_\_\_\_\_



12. Given:

Conclusion:  $\angle 8$  and  $\angle 9$  are vertical

Why: \_\_\_\_\_

13. Given:  $m\angle NAT + m\angle WED = 90^\circ$   
 Conclusion:  $\angle NAT$  &  $\angle WED$  are complementary

Why: \_\_\_\_\_

14. Given:  $\overline{FA} \cong \overline{RM}$   
 Conclusion:  $FA = RM$

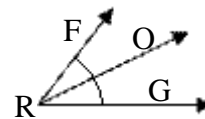
Why: \_\_\_\_\_

15. Given:  $MA = TH$   
 Conclusion:  $\overline{MA} \cong \overline{TH}$

Why: \_\_\_\_\_

16. Given:  $m\angle AFD + m\angle BAT = 180^\circ$   
 Conclusion:  $\angle AFD$  &  $\angle BAT$  are supplementary

Why: \_\_\_\_\_



17. Given:

Conclusion:  $\angle FRO \cong \angle ORG$

Why: \_\_\_\_\_

18. Given:  $m\angle 2 = m\angle 6$   
 Conclusion:  $\angle 2 \cong \angle 6$

Why: \_\_\_\_\_