**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**October 25th, 2011**

**Geometry, Mrs. Sulkes**

**Review for Test #1 Q2**

**Chapter 2 and 3.1**

For #1 – 4, fill in the blanks to make each statement true.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_lines are noncoplanar lines.

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_lines are coplanar lines that do not intersect.

3. If M is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_of segment AB, then AM = ½ AB by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

4. Supplementary angles are two angles whose measures have the sum of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

For #5 -10 , write the postulate, theorem, or definition that is exemplified by each of the following statements.

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_If  is a complement of  and  is a complement of , then .

6.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ If  and  are supplements, then 

7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ If bisects , then .

9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_If  and the two segments intersect at , then .

10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Given:  and  are adjacent angles and their sum is 180 degrees. If , then their rays are perpendicular.

For #11 -12, write always, sometimes, or never in the blank.

11. Two planes that do not intersect are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_parallel.

12. Two adjacent angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ supplementary.

Use the diagram below to answer #13 – 16. Note: use only the angles given.

j

2

1

3

5

8

7

4

9

k

6

13. Name one pair of vertical angles. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. Name one pair of supplementary angles. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. Name one pair of alternate interior angles formed by a transversal. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16. Name one pair of corresponding angles formed by a transversal. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. The complement of an angle is two more than three times the angle. Find the measure of the angle and its complement.

18. Complete the following proof. Statements Reasons

Given:  is supplementary to 

 is supplementary to 

Prove: 

j

2

1

3

*k*



19. Complete the following problems in the book:

p. 64 #20, 22

p. 67 #5 – 20 all

p. 71 #21 - 25