**H. Geometry - SSS & SAS Practice Hwk #32 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hr: \_\_\_\_\_**

1. Name the congruence postulate that proves the 2 triangles below are congruent: \_\_\_\_\_\_\_\_\_\_\_

 Write the congruence statement for the triangles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



2. Name the congruence postulate that proves the 2 triangles below are congruent: \_\_\_\_\_\_\_\_\_\_\_

 Write the congruence statement for the triangles: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_





Postulate: \_\_\_\_\_\_\_\_\_\_\_\_ Postulate: \_\_\_\_\_\_\_\_\_\_\_\_ Postulate: \_\_\_\_\_\_\_\_\_\_\_\_

 statement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_  statement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_  statement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_



Postulate: \_\_\_\_\_\_\_\_\_\_\_\_ Postulate: \_\_\_\_\_\_\_\_\_\_\_\_ Postulate: \_\_\_\_\_\_\_\_\_\_\_\_

 statement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_  statement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_  statement: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. If bisects  and what other information do you need to prove the two triangles congruent by each postulate?

a) SSS b) SAS

c) Write the congruence statement for the two triangles.

10. Complete the proof.

Given: D is the midpoint of  and 

Prove: 



|  |  |
| --- | --- |
| **Statements** | **Justifications** |
| D is the midpoint of  |  |
|  |  |
|  | Given |
|  | Definition of perpendicular lines |
|  | All right angles are congruent |
|  |  |
|  |  |

11. Complete the proof:

|  |  |
| --- | --- |
| **Statements** | **Justifications** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Given: 

 bisects 

Prove: 

