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

Monica

Geometry Period:\_\_\_\_\_

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PROPERTIES OF EQUALITY**

|  |  |
| --- | --- |
| **Description** | **Name of Property** |
|  | Addition Property of Equality |
|  | Subtraction Property of Equality |
|  | Division Property of Equality |
|  | Multiplication Property of Equality |
|  | Reflexive Property of Equality |
|  | Transitive Property of Equality |
|  | Substitution Property of Equality |
|  | Distributive Property of Equality |

|  |
| --- |
| **ANGLE ADDITION POSTULATE** |
| **SEGMENT ADDITION POSTULATE** |

**Directions:** Answer each of the questions below, justifying each step of your solution with a postulate or property of equality.

1) In the diagram below, AB = 6x + 7, BC = 2x – 4, and AC = 24. What is the value of x?



2) In the diagram below, , , and . What is the value of x?

