**H. Geometry – Bellwork #33 Date: \_\_\_\_\_\_\_\_\_\_**

1. Identify the property that justifies the statement: If 3x – 7 = 23, then 3x = 30.

[A] Subtraction Property of Equality [B] Addition Property of Equality

[C] Substitution [D] Transitive Property of Equality

2. Identify the property that justifies the statement: If , then .

[A] Reflexive Property of Congruence [B] Symmetric Property of Congruence

[C] Transitive Property of Congruence [D] Division Property of Equality

**For 3 – 8, name the property that justifies each statement.**

3. If  and , then \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. If 3x + 2 = 7, then 3x = 5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. If y = 2 and x + y = 7, then x + 2 = 7 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. If , then x = 4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. If , then . \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. -3(x – 6) = -3x + 18 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Solve and prove the following equation.

**Solve/Statements: Reason/Justification:**

3x + 2 – 5x = 4x – 16

A picture containing object

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10.