Geometry
Unit: Introduction to Proof
Section: Informal and Two Column Proofs

Multiple Choice: Properties

Directions: Choose the correct property.

1. c = c
Transitive
Reflexive
Symmetric
Commutative

2. a (b – c) = ab – ac
Commutative
Transitive
Distributive
Reflexive

3. a + 0 = a
Additive identity
Commutative
Reflexive
Associative

4. If b = d, then d = b
Reflexive
Symmetric
Transitive
Substitution

5. If a = b and b = c, then a = c
Distributive
Additive property of equality
Transitive
Reflexive

6. 1a = a
Reflexive
Multiplicative Identity
Distributive
Associative

7. a + b = b + a
Symmetric
Associative
Substitution
Commutative

8. If a = b, then a/c = b/c
Transitive
Distributive

Division property of equality
Division identity

9. AB = AB
Symmetric
Reflexive
Transitive
Addition property of equality

10. Segment EF = Segment FE
Symmetric
Reflexive
Transitive
Addition property of equality

11. If lines AB || CD and CD || EF, AB || EF
Symmetric
Reflexive
Transitive
Distributive

12. the measure of angle ABC plus the measure of angle dEF equals the measure of angle DEF plus the measure of angle ABD.
Symmetric
Reflexive
Transitive
Distributive

Answers:

1. reflexive

2. distributive

3. additive identity

4. symmetric

5. transitive

6. multiplicative identity

7. commutative

8. division property of equality

9. reflexive

10. symmetric

11. transitive

12. commutative