Create your own Proof Assignment

Your job is to create, with your partner, a set of three proofs that will require as many properties as possible from the list of what we have learned so far. You will be trading proof sets with another set of partners. **Your homework is to solve** **the proofs that the other partner set has created for you**.

In your binder, you should have: this document, a copy of your 3 proof headers, and then your solutions to another group’s 3 proof headers. All of these documents are #21.

Properties List as of Week 8 (2015-2016)

|  |  |
| --- | --- |
| PROPERTY | Do I understand it? |
| YES! | KINDA | NO! |
| 60° angles🡪 Equiangular Triangle |  |  |  |
| AAS |  |  |  |
| Addition Property of Equality |  |  |  |
| Alternate Exterior Angles Theorem |  |  |  |
| Alternate Interior Angles Theorem |  |  |  |
| Angle Addition Postulate |  |  |  |
| ASA |  |  |  |
| Converse Alternate Exterior Angles Theorem |  |  |  |
| Converse Alternate Interior Angles Theorem |  |  |  |
| Converse Corresponding Angles Postulate |  |  |  |
| Converse of Isosceles Triangle Theorem |  |  |  |
| Converse Same Side Interior Angles Theorem |  |  |  |
| Corresponding Angles Postulate |  |  |  |
| CPCTC |  |  |  |
| Definition of a Bisector |  |  |  |
| Definition of a Midpoint |  |  |  |
| Definition of a Right Angle |  |  |  |
| Definition of Complementary Angles |  |  |  |
| Definition of Congruence |  |  |  |
| Definition of Supplementary Angles |  |  |  |
| Division Property of Equality |  |  |  |
| Equiangular Triangle🡪60° angles |  |  |  |
| Given |  |  |  |
| HL |  |  |  |
| Isosceles Triangle Theorem  |  |  |  |
| Linear Pair Theorem |  |  |  |
| Multiplication Property of Equality |  |  |  |
| Reflexive Property of Congruence |  |  |  |
| Reflexive Property of Equality |  |  |  |
| Same Side Interior Angles Theorem |  |  |  |
| SAS |  |  |  |
| Segment Addition Postulate |  |  |  |
| Simplify |  |  |  |
| SSS |  |  |  |
| Substitution |  |  |  |
| Subtraction Property of Equality |  |  |  |
| Symmetric Property of Congruence |  |  |  |
| Symmetric Property of Equality |  |  |  |
| Third Angles Theorem  |  |  |  |
| Triangle Sum Theorem |  |  |  |
| Vertical Angles Theorem |  |  |  |