Activity 4.3.1: Proving Inequalities in a Triangle

Total points = 31

1. Reasons
   1. Given✓
   2. Definition of Midpoint✓
   3. Vertical Angles theorem✓
   4. SAS Triangle Congruence Postulate✓
   5. CPCTC✓
   6. Definition of Congruent Angles✓
   7. Angle Addition Postulate✓
   8. Law of Substitution ✓
   9. The whole is greater than its parts. ✓
2. Reasons
   1. Given ✓
   2. Definition of Midpoint ✓
   3. Transitive Property ✓
   4. Base Angles Theorem ✓
   5. Angle Addition Postulate ✓
   6. Law of Substitution ✓
   7. The whole is greater than its parts. ✓
   8. Angle-Side Relationship theorem ✓
   9. Segment Addition Postulate ✓
   10. Law of Substitution ✓
   11. Law of Substitution ✓
3. Reasons
   1. Given ✓
   2. CPCTC ✓
   3. Definition of Angle Bisector ✓
   4. Reflexive Property ✓
   5. SAS Postulate ✓
   6. CPCTC ✓
   7. Triangle Inequality theorem ✓
   8. Law of Substitution ✓
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