Proofs Practice Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Use the triangle diagram for both** G

**questions 1 and 2**

1. Given: $\overbar{BU}≅\overbar{KS}$

 $\overbar{UC}≅\overbar{CK}$

Prove: C is the midpoint of $\overbar{BS}$

 B U C K S

1. Given: ∠BGC ≅ ∠SGC

 $\vec{GC}$ bisects ∠UGK

Prove: ∠BGU ≅ ∠SGK

1. Given: ∠MAH ≅ ∠MHA M H

 $\overbar{AH}$ bisects ∠MAT and ∠THM

 Prove: ∠MAT ≅ ∠THM

 A T

 G E O M

1. Given: $\overbar{GM}≅\overbar{AT}$

 $\overbar{ER}$ and $\overbar{OY}$ trisect $\overbar{GM}$ and $\overbar{AT}$

 Prove: $ \overbar{GO}≅\overbar{TY}$

 T R Y A



5.

 Given: 

 

 Prove: 



6.

 Given:  bisects 

 bisects 



Prove: 



7.

 Given: 

 Prove: 



8.

 Given:

Prove: 

9.

 

2

1

4

3

**S**

**T**

**R**

**V**

10. The supplement of an angle is 12 more than twice its complement. Find the supplement.