## Geometry Honors

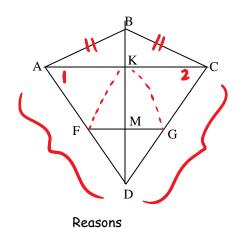
 $\overline{\mathsf{AB}} \cong \overline{\mathsf{BC}}$ 

Given:  $\overline{AD} \cong \overline{CD}$ 

F is the midpoint of  $\overline{AD}$ 

G is the midpoint of  $\overline{CD}$ 

Prove:  $\overrightarrow{BD}$  is the  $\bot$  bisector of  $\overrightarrow{FG}$ 



Statements

- 1. AB = BC ·
- a. AD ~CD .
- 3. Fis the midpt of AD
- 4. Gis the midpt of CD
- 5. BD I bisector of AC

6. KA & KC (5)

- 7. Draw KF and KG
- 8. 41 = 42 A
- 9. AF = CG S
- 10. A AFK = OCGK
- II. KF ~ KG []
- 12. FD = DG □
- 13. BD is the L bisector FG

1 Givan

- 2." "
- 3. "
- 4 " "
- 5. If 2 points are equidistant from the endpts of a seg a determine the I bis. of seg.
- 6. If a pt. lies on the I bis ->
  it is equidistant from the
  endpts of seg
- 7. 2 pts determine a line
- 8. If A > A
- 9 Division prop.
- 10. SAS
- 11. CPCTC
- 12. Same as 9
- 13 Same as 5

 $\overline{\mathsf{PC}}\cong\overline{\mathsf{BR}}$ 

1. Given:  $\overline{PQ} \cong \overline{QR}$ 

 $\overline{BT}\cong\overline{CU}$ 

Prove:  $\overline{TS} \cong \overline{US}$ 

