**Math 3**

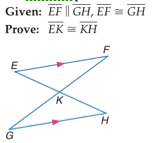
**Congruent Triangle Proofs**

**Homework**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Name**

**Fill in the reasons.**

1. Statements Reasons

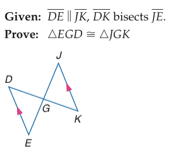
1. EF GH, EF GH 1.

2. FEK GHK 2.

3. EKF 3.

4. EFK HGK 4.

5. EK HK 5.

2.  Statements Reasons

1. DE JK, DK bisects JE 1.

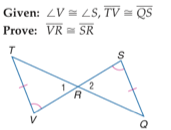
2. 2.

3. EG JG 3.

4. 4.

5. EGD JGK 5.

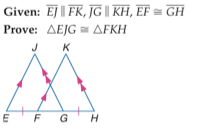
3. Statements Reasons

 1. V S, TV QS 1.

2. 1 2 2.

3. VRT SRQ 3.

4. VR SR 4.

4. Statements Reasons 1. EJ FK, JG KH, 1.

EF GH

2. JEG KHF 2.

JGE KHF

3. FG FG 3.

4. EF = GH, FG = FG 4.

5. EF+FG=EG 5.

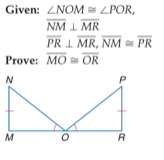
FG+GH=FH

6. FG+EF=FH 6.

7. EG=FH 7.

8. EG FH 8.

9. EJG FKH 9.

5. Statements Reasons  1. NOM POR 1.

NM MR, PR MR

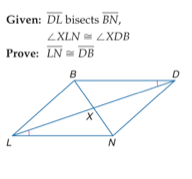
NM PR

2. NMO and PRO are rt angles 2.

3. NMO PRO 3.

4. MNO RPO 4.

5. MO OR 5.

6.  Statements Reasons

1. DL bisects BN 1.

XLN XDB

2. BX NX 2.

3. BXD NXL 3.

4. LXN DXB 4.

5. LN DB 5.