

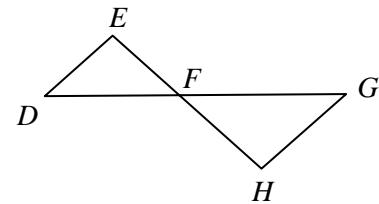
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**Unit 6:** Similar Triangles

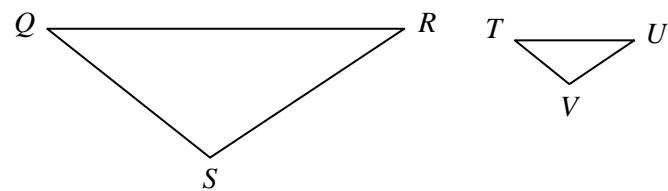
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**Homework 4:** Similar Triangle Proofs

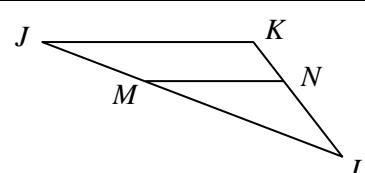
\*\* This is a 2-page document! \*\*

**Directions:** Complete each proof.**1. Given:**  $\overline{DE} \parallel \overline{GH}$ **Prove:**  $\triangle DFE \sim \triangle GFH$ 

<b>Statements</b>	<b>Reasons</b>

**2. Given:**  $\frac{QS}{TV} = \frac{RS}{UV} = 3, QR = 3TU$ **Prove:**  $\triangle QRS \sim \triangle TUV$ 

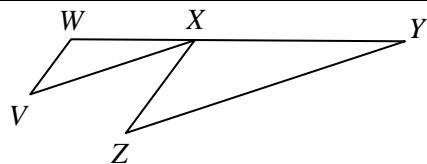
<b>Statements</b>	<b>Reasons</b>

**3. Given:**  $\frac{LM}{LJ} = \frac{LN}{LK}$ **Prove:**  $\triangle LMN \sim \triangle LJN$ 

<b>Statements</b>	<b>Reasons</b>

**4. Given:**  $\overline{VW} \parallel \overline{ZX}$ ,  $\frac{VW}{ZX} = \frac{WX}{XY}$

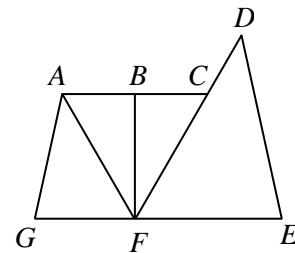
**Prove:**  $\angle V \cong \angle Z$



Statements	Reasons

**5. Given:**  $\angle BFG \cong \angle BFE$ ,  $\overline{BF}$  bisects  $\angle AFD$ ,  
 $\angle GAF \cong \angle EDF$

**Prove:**  $\Delta GAF \sim \Delta EDF$



Statements	Reasons