

Name: _____

Unit 6: Similar Triangles

Date: _____ Per: _____

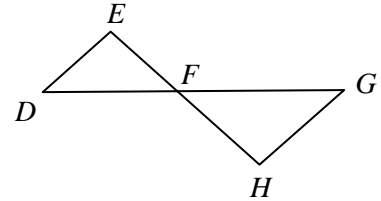
Homework 4: Similar Triangle Proofs

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

Directions: Complete each proof.

1. Given: $\overline{DE} \parallel \overline{GH}$

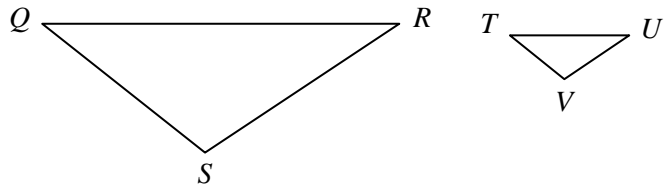
Prove: $\triangle DFE \sim \triangle GFH$



Statements	Reasons

2. Given: $\frac{QS}{TV} = \frac{RS}{UV} = 3, QR = 3TU$

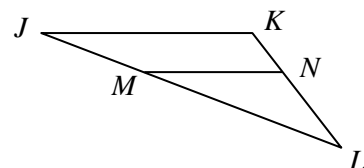
Prove: $\triangle QRS \sim \triangle TVU$



Statements	Reasons

3. Given: $\frac{LM}{LJ} = \frac{LN}{LK}$

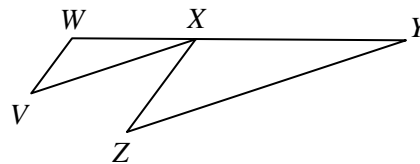
Prove: $\triangle LMN \sim \triangle LJK$



Statements	Reasons

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

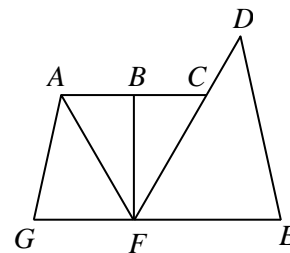
Prove: $\angle V \cong \angle Z$



Statements	Reasons

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

Prove: $\triangle GAF \sim \triangle EDF$

[illegible]