

Name: _____

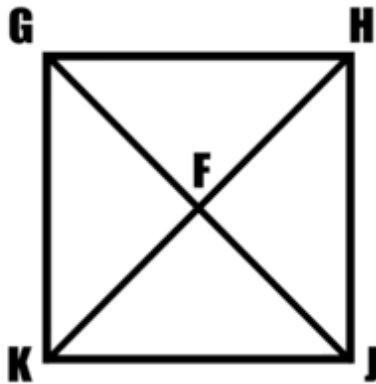
Lesson Guide

This lesson guide accompanies the following video lesson:

Side-Side-Side
SSS
 Angle-Side-Angle
ASA
 Side-Angle-Side
SAS
 Angle-Angle-Side
AAS
 Hypotenuse-Leg
HL

Practice with Geometry Proofs

Practice Proof #1



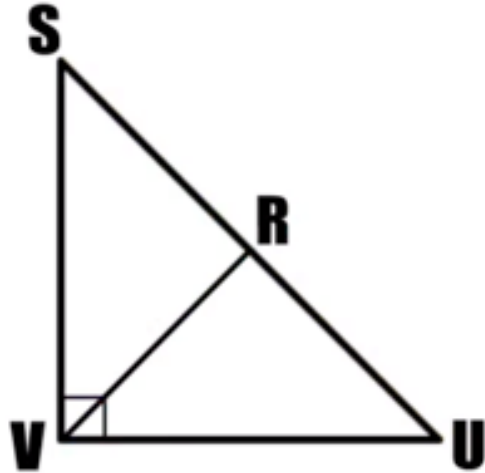
Pro Tip: Used colored pens/pencils and highlighters to help you label the diagrams!

Given: \overline{GJ} and \overline{HK} bisect each other at F.

Prove: $\triangle GFK \cong \triangle HFJ$

STATEMENTS	REASONS

Practice Proof #2

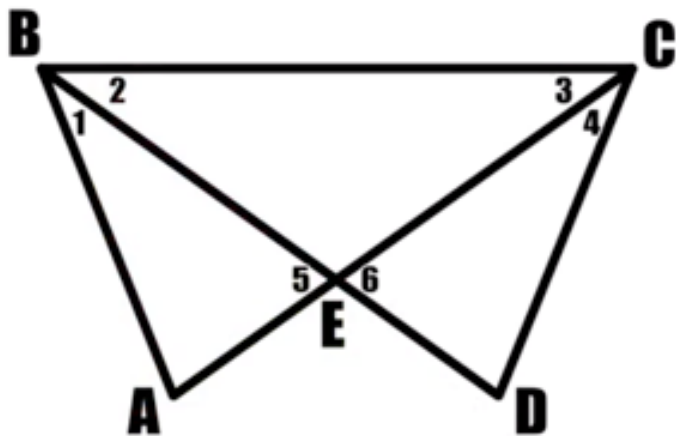


Given: R is the midpoint of \overline{SU}
 $\overline{SV} \cong \overline{UV}$

Prove: $\triangle RSV \cong \triangle RUV$

STATEMENTS	REASONS

Practice Proof #3



Given: $\angle A \cong \angle D$
 $\angle 2 \cong \angle 3$

Prove: $\overline{AE} \cong \overline{DE}$

STATEMENTS	REASONS

Answer Key

#1

STATEMENTS	REASONS
\overline{GJ} and \overline{HK} bisect each other at F.	Given
$\overline{GF} \cong \overline{JF}$ & $\overline{KF} \cong \overline{HF}$	Def. of Bisect
$\angle GFK \cong \angle HFJ$	Vertical Angles
$\triangle GFK \cong \triangle HFJ$	SAS

#2

STATEMENTS	REASONS
R is the midpoint of \overline{SU}	Given
$\overline{SR} \cong \overline{UR}$	Def. of Midpoint
$\overline{SV} \cong \overline{UV}$	Given
$\overline{VR} \cong \overline{VR}$	Reflexive Property
$\triangle RSV \cong \triangle RUV$	SSS

#3

STATEMENTS	REASONS
$\angle A \cong \angle D$	Given
$\angle 2 \cong \angle 3$	Given
$\triangle BCE$ is isoscles	Base Angle Theorem
$\overline{BE} \cong \overline{CE}$	Def. of Isosceles Triangle
$\angle 5 \cong \angle 6$	Vertical Angles
$\triangle BAE \cong \triangle CDE$	AAS
$\overline{AE} \cong \overline{DE}$	CPCTC