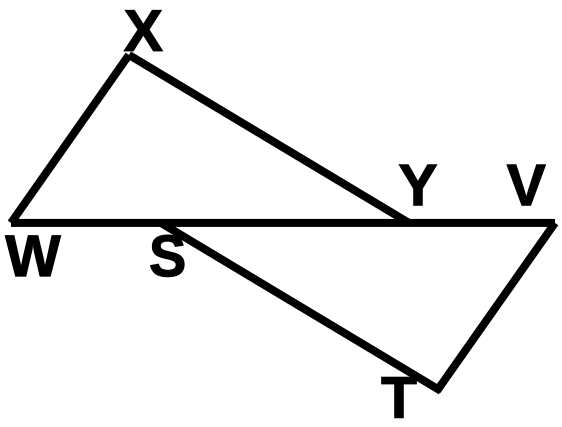
Proof ONE



Given:

$\measuredangle SVT \cong \measuredangle YWX$

$\measuredangle XYW \cong \measuredangle TSV$

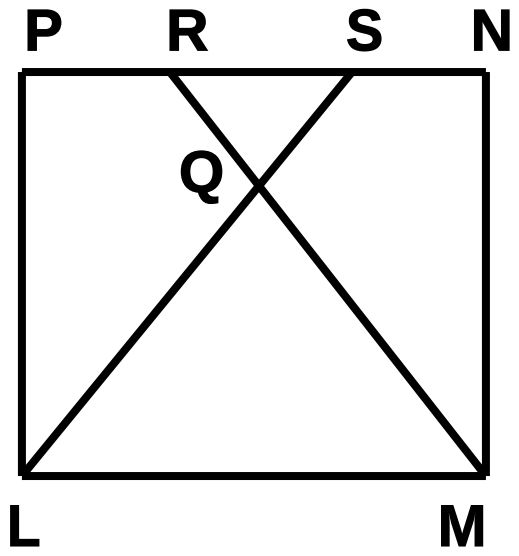
$\overline{WS} \cong \overline{VY}$

Prove:

$\triangle WXY \cong \triangle VTS$

$\measuredangle SVT \cong \measuredangle YWX$	Given
$\measuredangle XYW \cong \measuredangle TSV$	Given
$\overline{WS} \cong \overline{VY}$	Given
$\overline{SY} \cong \overline{SY}$	Reflexive Property
$\overline{WY} \cong \overline{VS}$	Addition Postulate
$\triangle WXY \cong \triangle VTS$	ASA

Proof TWO



Given:

$\overline{LP} \perp \overline{PN}$

$\overline{MN} \perp \overline{PN}$

$\overline{PR} \cong \overline{NS}$

$\overline{LP} \cong \overline{NM}$

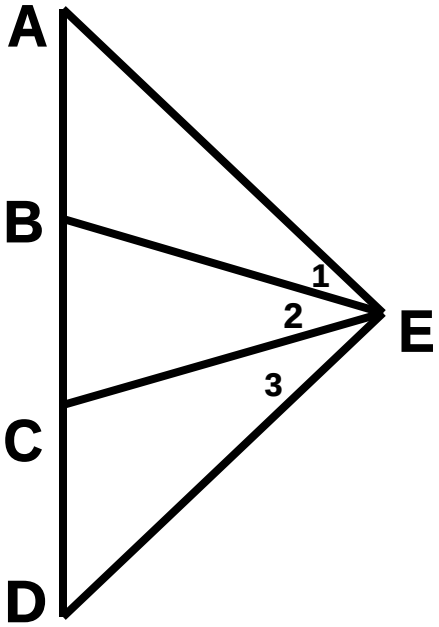
Prove:

$\triangle PLS \cong \triangle NMR$

$\overline{LP} \cong \overline{MN}$	Given
$\overline{PR} \cong \overline{NS}$	Given
$\overline{RS} \cong \overline{RS}$	Reflexive Property
$\overline{PR}+\overline{RS} \cong \overline{NS}+\overline{SR}$	Addition Postulate
$\overline{PS} \cong \overline{NR}$	Substitution Postulate

$\overline{LP} \perp \overline{PN}$	Given
$\overline{MN} \perp \overline{PN}$	Given
$\measuredangle LPS$ and $\measuredangle MNP$ are right $\measuredangle$s	Definition of *perpendicular*
$\measuredangle LPS \cong \measuredangle MNP$	Right $\measuredangle$s are congruent
$\triangle PLS \cong \triangle NMR$	SAS

Proof THREE



Given :

$\measuredangle 1 \cong \measuredangle 2$

$\measuredangle 2 \cong \measuredangle 3$

$\overline{EB} \cong \overline{EC}$

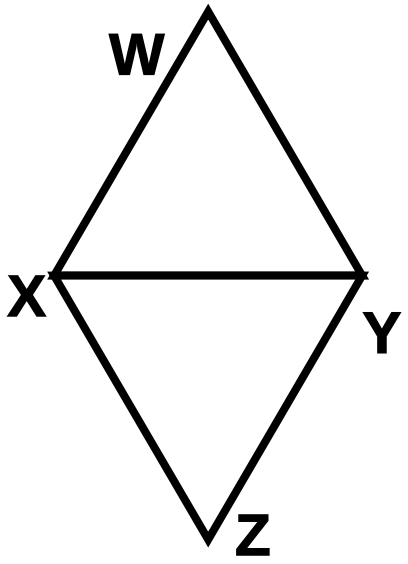
$\overline{AE} \cong \overline{DE}$

Prove:

$\triangle AEB \cong \triangle DEC$

$\measuredangle 1 \cong \measuredangle 2$	Given
$\measuredangle 2 \cong \measuredangle 3$	Given
$\measuredangle 1 \cong \measuredangle 3$	Transitive Property
$\overline{EB} \cong \overline{EC}$	Given
$\overline{AE} \cong \overline{DE}$	Given
$\triangle AEB \cong \triangle DEC$	SAS

Proof FOUR



Given:

$\overline{XY}$ bisects $\measuredangle WXZ$

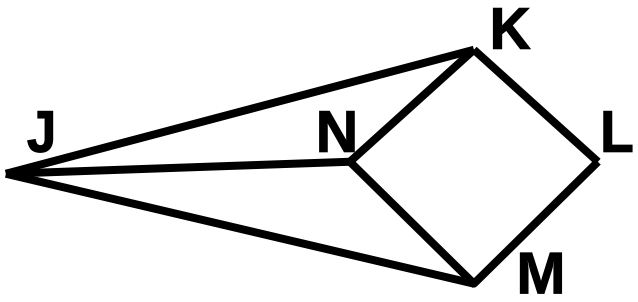
$\overline{WX} \cong \overline{ZX}$

Prove:

$\triangle WXY \cong \triangle ZXY$

$\overline{XY}$ bisects $\measuredangle WXZ$	Given
$\measuredangle WXY \cong \measuredangle ZXY$	Definition of $\measuredangle$ *bisector*
$\overline{XY} \cong \overline{XY}$	Reflexive Property
$\overline{WX} \cong \overline{ZX}$	Given
$\triangle WXY \cong \triangle ZXY$	SAS

Proof FIVE



Given:

□NKLM is a square

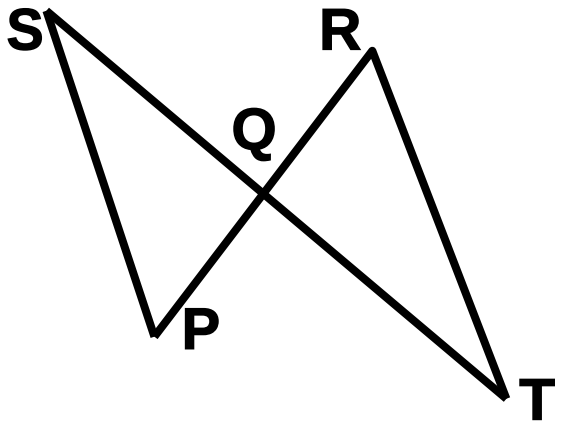
$\overline{JK} \cong \overline{JM}$

Prove:

△JKN ≅ △JMN

□NKLM is a square	Given
$\overline{NM} \cong \overline{NK}$	All sides of a □ are ≅
$\overline{JN} \cong \overline{JN}$	Reflexive Property
$\overline{JK} \cong \overline{JM}$	Given
△JKN ≅ △JMN	SSS

Proof SIX



Given:

Q is the midpoint of $\overline{PR}$

$\measuredangle P \cong \measuredangle R$

Prove:

$\triangle SPQ \cong \triangle TRQ$

Q is the midpoint of $\overline{PR}$	Given
$\overline{PQ} \cong \overline{RQ}$	Definition of *midpoint*
$\measuredangle SQP \cong \measuredangle TQR$	Vertical $\measuredangle$s are $\cong$
$\measuredangle P \cong \measuredangle R$	Given
$\triangle SPQ \cong \triangle TRQ$	ASA