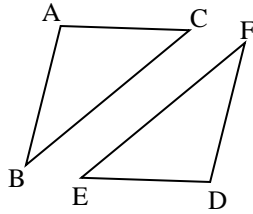


Additional Practice with Proving Triangles are Congruent

For each of the following, write a two-column proof.

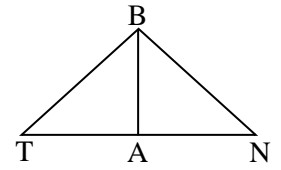
1.

Given: $\overline{AB} \cong \overline{DF}$
 $\overline{AC} \cong \overline{DE}$
 $\overline{BC} \cong \overline{EF}$
 Prove: $\triangle ABC \cong \triangle DFE$



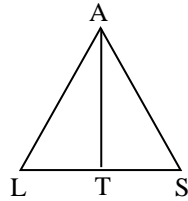
2.

Given: $\angle T \cong \angle N$
 $\angle TAB \cong \angle NAB$
 Prove: $\triangle TAB \cong \triangle NAB$



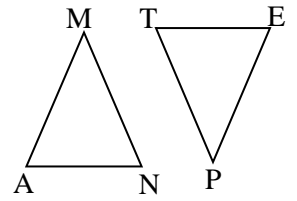
3.

Given: \overline{AT} bisects $\angle LAS$
 $\overline{LA} \cong \overline{AS}$
 Prove: $\triangle ATL \cong \triangle ATS$



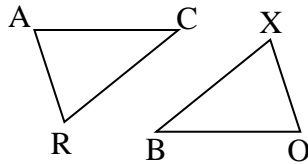
4.

Given: $\angle M \cong \angle P$
 $\overline{MA} \cong \overline{PE}$
 $\overline{MN} \cong \overline{PT}$
 Prove: $\triangle MAN \cong \triangle PET$



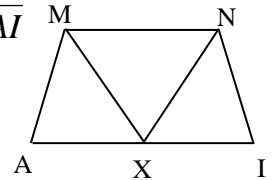
5.

Given: $\angle B \cong \angle C$
 $\angle A \cong \angle O$
 $\overline{AC} \cong \overline{BO}$
 Prove: $\triangle CAR \cong \triangle BOX$



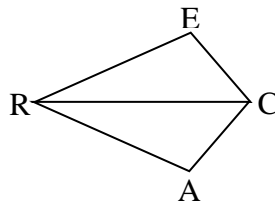
6.

Given: X is the midpoint of \overline{AI}
 $\angle A \cong \angle I$
 $\overline{MA} \cong \overline{IN}$
 Prove: $\triangle MAX \cong \triangle NIX$



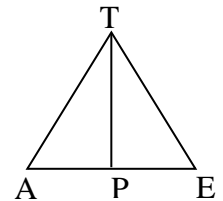
7.

Given: $\overline{RA} \cong \overline{RE}$
 $\overline{EC} \cong \overline{AC}$
 Prove: $\triangle REC \cong \triangle RAC$



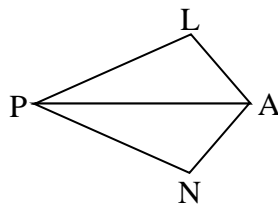
8.

Given: $\overline{PT} \perp \overline{AE}$
 $\overline{AT} \cong \overline{TE}$
 Prove: $\triangle PAT \cong \triangle PET$



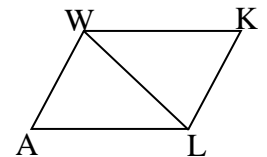
9.

Given: \overline{PA} bisects $\angle LAN$
 $\overline{LA} \cong \overline{AN}$
 Prove: $\triangle PLA \cong \triangle PNA$



10.

Given: $\angle KWL \cong \angle ALW$
 $\angle AWL \cong \angle WLK$
 Prove: $\triangle KWL \cong \triangle ALW$

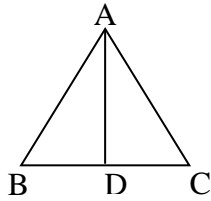


Additional Practice with Proofs with CPCTC

For each of the following, write a two-column proof.

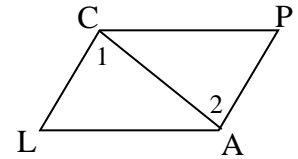
1.

Given: $\overline{AD} \perp \overline{BC}$
 $\overline{BD} \cong \overline{CD}$
 Prove: $\overline{AB} \cong \overline{AC}$



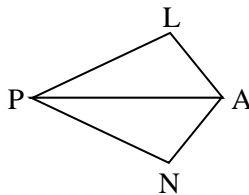
2.

Given: $\overline{CL} \cong \overline{PA}$
 $\angle 1 \cong \angle 2$
 Prove: $\overline{LA} \cong \overline{CP}$



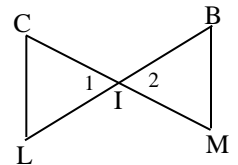
3.

Given: \overline{PA} bisects $\angle LPN$
 \overline{PA} bisects $\angle LAN$
 Prove: $\overline{LN} \cong \overline{LA}$



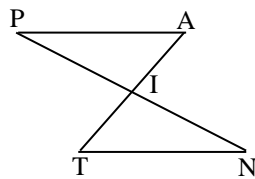
4.

Given: I is the midpoint of \overline{CM}
 I is the midpoint of \overline{BL}
 Prove: $\overline{CL} \cong \overline{MB}$



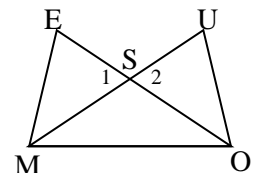
5.

Given: $\overline{PA} \parallel \overline{TN}$
 \overline{PN} bisects \overline{AT}
 Prove: $\overline{PI} \cong \overline{IN}$



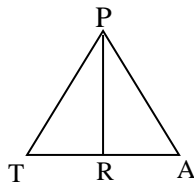
6.

Given: $\overline{SE} \cong \overline{SU}$
 $\angle E \cong \angle U$
 Prove: $\overline{MS} \cong \overline{OS}$



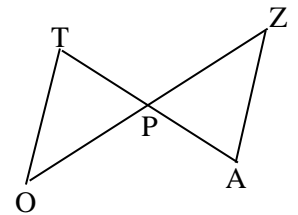
7.

Given: $\overline{PT} \cong \overline{PA}$
 $\overline{PR} \perp \overline{AT}$
 Prove: R is the midpoint of \overline{AT}



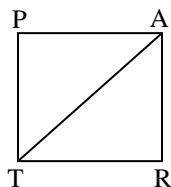
8.

Given: $\overline{TO} \cong \overline{AZ}$
 $\angle O \cong \angle A$
 Prove: $\triangle TOP \cong \triangle ZAP$



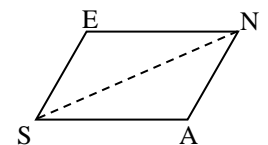
9.

Given: $\overline{PA} \parallel \overline{TR}$
 $\overline{PA} \cong \overline{TR}$
 Prove: $\overline{PT} \cong \overline{AR}$



10.

Given: $\overline{SA} \cong \overline{NE}$
 $\overline{SE} \parallel \overline{NA}$
 Prove: $\overline{SA} \cong \overline{NE}$



Unit 4 Triangle Congruence Proofs Review

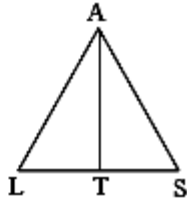
Directions: For each of the following problems, create a two column proof.

1.

Given: \overline{AT} bisects $\angle LAS$

$\overline{LA} \cong \overline{AS}$

Prove: $\triangle ATL \cong \triangle ATS$



STATEMENTS

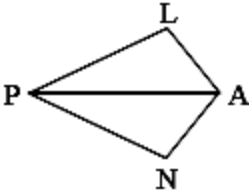
REASONS

2.

Given: \overline{PA} bisects $\angle LPN$

\overline{PA} bisects $\angle LAN$

Prove: $\angle N \cong \angle L$



STATEMENTS

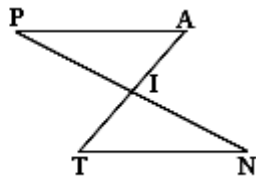
REASONS

3.

Given: $\overline{PA} \parallel \overline{TN}$

\overline{PN} bisects \overline{AT}

Prove: $\overline{PI} \cong \overline{IN}$



STATEMENTS

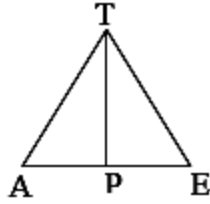
REASONS

4.

Given: $\overline{PT} \perp \overline{AE}$

$\overline{AT} \cong \overline{TE}$

Prove: $\triangle PAT \cong \triangle PET$



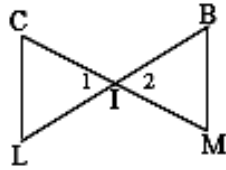
STATEMENTS	REASONS

5.

Given: I is the midpoint of \overline{CM}

I is the midpoint of \overline{BL}

Prove: $\overline{CL} \cong \overline{MB}$



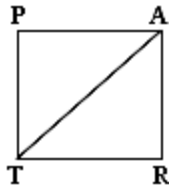
STATEMENTS	REASONS

6.

Given: $\overline{PA} \parallel \overline{TR}$

$\overline{PA} \cong \overline{TR}$

Prove: $\overline{PT} \cong \overline{AR}$



STATEMENTS	REASONS