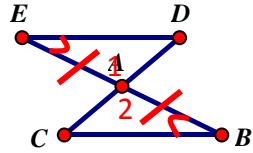


Geometry

Unit One B: Two-Column Proofs #3 (IC13)

1. GIVEN:

$$\angle B \cong \angle E \text{ \& } \overline{EA} \cong \overline{BA}$$

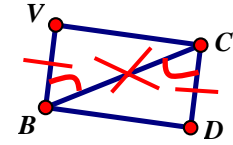


PROVE:

$$\triangle EAD \cong \triangle BAC$$

2. GIVEN:

$$\angle VBC \cong \angle DCB \text{ \& } \overline{VB} \cong \overline{DC}$$



PROVE:

$$\triangle BVC \cong \triangle CDB$$

STATEMENT	REASON
1) $\angle B \cong \angle E$	1) Given
2) $\overline{EA} \cong \overline{BA}$	2) Given
3) $\angle 1 \cong \angle 2$	3) Vert. \angle 's thm
4) $\triangle EAD \cong \triangle BAC$	4) ASA

STATEMENT	REASON
1) $\angle VBC \cong \angle DCB$	1) Given
2) $\overline{VB} \cong \overline{DC}$	2) Given
3) $\overline{BC} \cong \overline{CB}$	3) Reflexive Prop
4) $\triangle BVC \cong \triangle CDB$	4) SAS

Name: _____

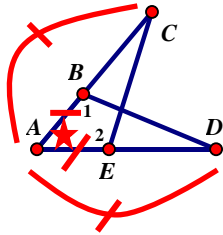
Date: _____ Period: _____

3) GIVEN:

$$\overline{AB} \cong \overline{AE} \text{ \& } \overline{AC} \cong \overline{AD}$$

PROVE:

$$\triangle AEC \cong \triangle ABD$$

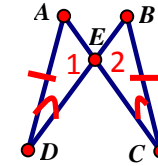


4) GIVEN:

$$\angle D \cong \angle C \text{ \& } \overline{AD} \cong \overline{BC}$$

PROVE:

$$\triangle EDA \cong \triangle ECB$$



STATEMENT	REASON
1) $\overline{AB} \cong \overline{AE}$	1) Given
2) $\overline{AC} \cong \overline{AD}$	2) Given
3) $\angle A \cong \angle A$	3) Reflexive Prop
4) $\triangle AEC \cong \triangle ABD$	4) SAS

STATEMENT	REASON
1) $\angle D \cong \angle C$	1) Given
2) $\overline{AD} \cong \overline{BC}$	2) Given
3) $\angle 1 \cong \angle 2$	3) Vert. \angle 's thm
4) $\triangle EDA \cong \triangle ECB$	4) AAS

