

Geometry

Unit One B: Two-Column Proofs #4 (HW13)

Name: _____

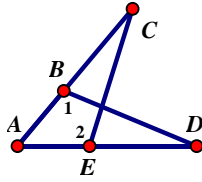
Date: _____ Period: _____

1) GIVEN:

$$\angle 1 \cong \angle 2 \text{ \& } \overline{BD} \cong \overline{EC}$$

PROVE:

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



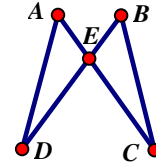
STATEMENT	REASON

2) GIVEN:

$$\angle D \cong \angle C \text{ \& } \overline{DE} \cong \overline{CE}$$

PROVE:

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



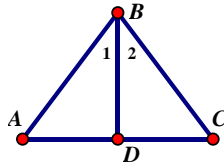
STATEMENT	REASON

3) GIVEN:

$$\angle 1 \cong \angle 2 \text{ \& } \overline{BA} \cong \overline{BC}$$

PROVE:

$$\triangle ABD \cong \triangle CBD$$



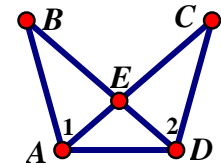
STATEMENT	REASON

4) GIVEN:

$$\angle 1 \cong \angle 2 \text{ \& } \overline{EB} \cong \overline{EC}$$

PROVE:

$$\triangle AEB \cong \triangle DEC$$



STATEMENT	REASON

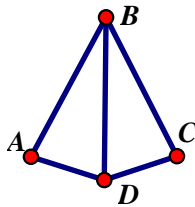
5) GIVEN:

$$\overline{BD} \text{ bisects } \angle ADC$$

$$\overline{BD} \text{ bisects } \angle ABC$$

PROVE:

$$\triangle DAB \cong \triangle DCB$$



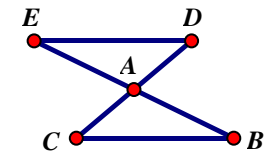
STATEMENT	REASON

6) GIVEN:

$$\angle D \cong \angle C \text{ \& } \overline{CA} \cong \overline{DA}$$

PROVE:

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



STATEMENT	REASON