

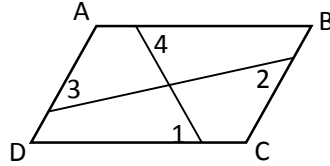
**Geometry**

**Unit6 Notes4 - Prove Quad is a Parallelogram**

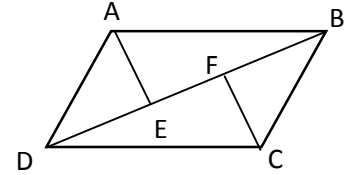
Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

Given:  $\angle 4 \cong \angle 1$ ;  $\angle 3 \cong \angle 2$



Given:  $\triangle AED \cong \triangle CFB$ ;  $AD \parallel BC$



Prove: Parallelogram ABCD

Prove:  $ABCD$  is a parallelogram

Statements

Reasons

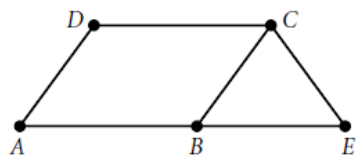
Statements

Reasons

Given:  $\triangle CBE$  is isosceles with base  $BE$ ;

$$AD \cong CE, \angle A \cong \angle E$$

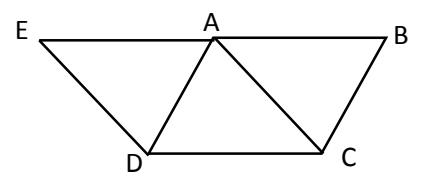
Prove: Parallelogram  $ABCD$



Given: Parallelogram  $EACD$ ;

$$\angle EDA \cong \angle ACB$$

Prove:  $AD \parallel BC$



Statements

Reasons

Statements

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