

Name: _____

Date: _____

UNIT 4

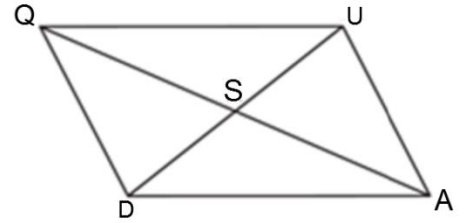
LESSON 6

AIM: PARALLELOGRAM PROOFS (DAY 2)

PART I: USING PROPERTIES OF PARALLELOGRAMS TO PROVE TRIANGLES CONGRUENT

1. *Given:* QUAD is a parallelogram with diagonals \overline{QA} and \overline{DU} intersecting at S.

Prove: $\triangle QSU \cong \triangle ASD$

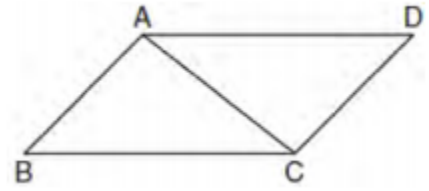


STATEMENT

REASON

STATEMENT	REASON

2. Given: Parallelogram ABCD with diagonal AC
Prove: $\triangle ABC \cong \triangle CDA$



STATEMENT

REASON

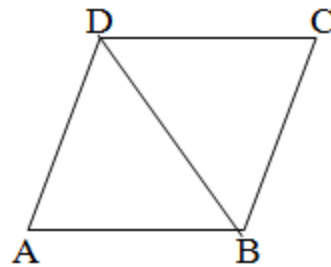
PART II: PROVING A QUADRILATERAL IS A PARALLELOGRAM USING CPCTC

3. *Given:* ABCD is a quadrilateral

$$\overline{AB} \parallel \overline{CD}$$

$$\sphericalangle A \cong \sphericalangle C$$

Prove: ABCD is a Parallelogram



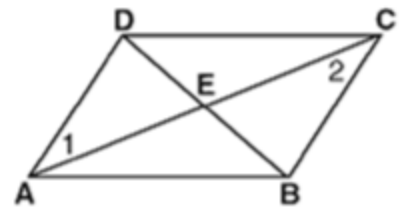
STATEMENT

REASON

4. Given: \overline{DB} bisects \overline{AC}

$$\angle 1 \cong \angle 2$$

Prove: $ABCD$ is a parallelogram



STATEMENT

REASON