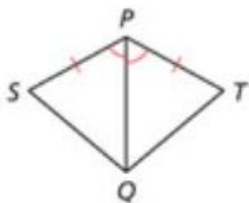


12.3 Proofs

15. Given \overline{PQ} bisects $\angle SPT$, $\overline{SP} \cong \overline{TP}$
 Prove $\triangle SPQ \cong \triangle TPQ$



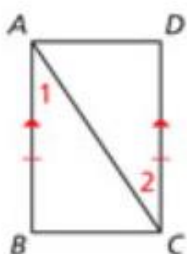
Statement

1. \overline{PQ} bisects $\angle STP$
2. $\angle SPQ \cong \angle TPQ$
- 3.
- 4.
- 5.

Reason

- 1.
- 2.
3. Given
4. Reflexive
- 5.

16. Given $\overline{AB} \cong \overline{CD}$, $\overline{AB} \parallel \overline{CD}$
 Prove $\triangle ABC \cong \triangle CDA$



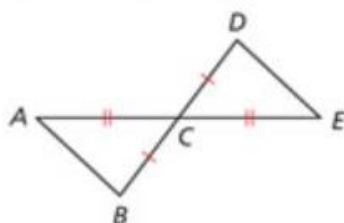
Statement

- 1.
- 2.
3. $\angle 1 \cong \angle 2$
4. $\overline{AC} \cong \overline{AC}$
- 5.

Reason

1. Given
2. Given
- 3.
- 4.
- 5.

17. Given C is the midpoint of \overline{AE} and \overline{BD} .
 Prove $\triangle ABC \cong \triangle EDC$



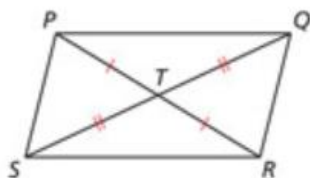
Statement

- 1.
- 2.
- 3.
4. $\triangle ABC \cong \triangle EDC$

Reason

- 1.
2. Def. mid pt.
- 3.
- 4.

18. Given $\overline{PT} \cong \overline{RT}$, $\overline{QT} \cong \overline{ST}$
 Prove $\triangle PQT \cong \triangle RST$



Statement

- 1.
- 2.
- 3.

Reason

- 1.
- 2.
- 3.