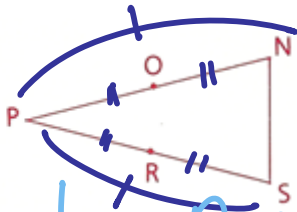


5 Given: O is the midpt. of \overline{NP} .
 R is the midpt. of \overline{SP} .
 $\overline{NP} \cong \overline{SP}$
 Conclusion: $\overline{SR} \cong \overline{NO}$



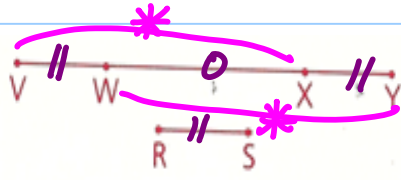
Statements

Reasons

1. $\overline{NP} \cong \overline{SP}$
 O midpt \overline{NP}
 R midpt \overline{SP}
2. $\overline{SR} \cong \overline{NO}$

1. Given
2. Divide

10 Given: $\overline{VW} \cong \overline{RS}$,
 $\overline{XY} \cong \overline{RS}$
 Prove: $\overline{VX} \cong \overline{WY}$



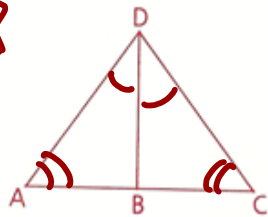
Statements

Reasons

1. $\overline{VW} \cong \overline{RS}$
 $\overline{RS} \cong \overline{XY}$
2. $\overline{VW} \cong \overline{XY}$
3. $\overline{WX} \cong \overline{WX}$
4. $\overline{VX} \cong \overline{WY}$

1. Given
2. Trans (1)
3. Ref
4. Add (2,3)

- 12 Given: $\angle A$ is comp. to $\angle ADB$.
 $\angle C$ is comp. to $\angle CDB$.
 \overrightarrow{DB} bisects $\angle ADC$.
 Conclusion: $\angle A \cong \angle C$

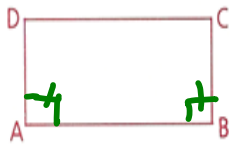


Statements

Reasons

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. \overrightarrow{DB} bis $\angle ADC$ 2. $\angle ADB \cong \angle CDB$ 3. $\angle A$ comp $\angle ADB$ $\angle C$ comp $\angle CDB$ 4. $\angle A \cong \angle C$ | <ol style="list-style-type: none"> 1. Given 2. bis $\Rightarrow \cong \angle$ (1) 3. Given 4. LS comp $\cong \angle S \Rightarrow \cong \angle$ (2,3) |
|---|---|

- 15 Given: $\angle A$ is a right \angle .
 $\angle B$ is a right \angle .
 $\angle B \cong \angle D$
 Prove: $\angle A \cong \angle D$



Statements

Reasons

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. $\angle A$ rt\angle, $\angle B$ rt\angle 2. $\angle A \cong \angle B$ 3. $\angle B \cong \angle D$ 4. $\angle A \cong \angle D$ | <ol style="list-style-type: none"> 1. Given 2. 2 rt\angles $\Rightarrow \cong \angle$s 3. Given 4. Trans. |
|--|---|