


Examples
Given: $\angle \mathrm{TEV} \cong \angle \mathrm{XEW}$
Prove: $\angle \mathrm{TEW} \cong \angle \mathrm{XEV}$
statement
(1) $\angle T E V \cong \angle X E W$
(2) $\angle V E W \cong \angle V E W$
(3) $\angle T E W \cong \angle X E V$

Reason

(1) Given
(2) Reflexive property of $\angle s$.
(3) If an $L$ is added to $\cong L ' s$, then the sum is $\cong$. (Add. prop. of 25 )

Given: $\overline{\mathrm{AC}} \cong \overline{\mathrm{DF}}$


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Given: $\overline{\mathrm{AC}} \cong \overline{\mathrm{DF}}$

$$
\overline{\mathrm{BC}} \cong \overline{\mathrm{EF}}
$$

Prove: $\overline{\mathrm{AB}} \cong \overline{\mathrm{DE}}$



Rule of Thumb

1. Use addition when conclusion is bigger than the given info.
2. Use subtraction when conclusion is smaller than the given info.
