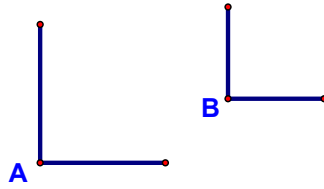


Theorem 1 - If two angles are right angles, then they are congruent.

Given: $\angle A$ is a right \angle
 $\angle B$ is a right \angle

Prove: $\angle A \cong \angle B$



Statements

Reasons

Statements	Reasons

Theorem 2 - If two angles are straight angles, then they are congruent.

Given: $\angle ABC$ is a straight \angle
 $\angle DEF$ is a straight \angle



Prove: $\angle ABC \cong \angle DEF$



Statements

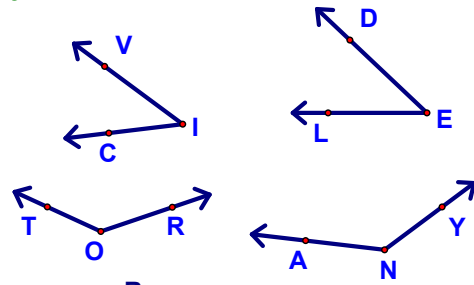
Reasons

Statements	Reasons

Theorem 5 - If \angle s are supplementary to \cong \angle s, then they are \cong

Given: \angle VIC is supplementary to \angle TOR
 \angle DEL is supplementary to \angle ANY
 \angle VIC \cong \angle DEL

Prove: \angle TOR \cong \angle ANY



Statements

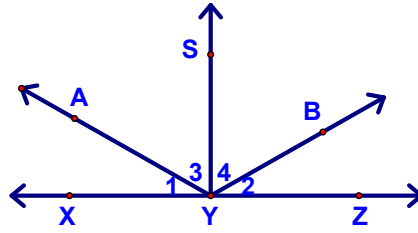
Reasons

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Theorem 7 - If \angle s are complementary to $\cong \angle$ s, then they are \cong

Given: $\angle 1$ is compl. to $\angle 3$
 $\angle 2$ is compl. to $\angle 4$
 $\angle 3 \cong \angle 4$

Prove: $\angle 1 \cong \angle 2$



Statements

Reasons



Theorem 8 - If a segment is added to two \cong segments, then the sums are \cong (The Addition Property of \cong Segments - Version 1).

Given: $\overline{AB} \cong \overline{CD}$



Prove: $\overline{AC} \cong \overline{BD}$

Statements

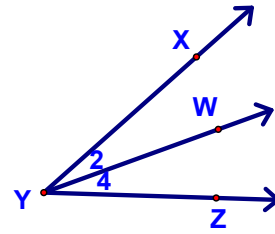
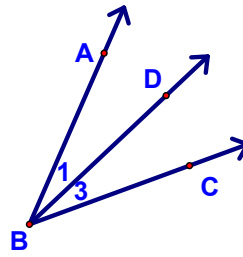
Reasons

Statements	Reasons

**Theorem 13 - If $\cong \angle$ s are subtracted from $\cong \angle$ s the resulting \angle s are \cong
 (The Subtraction Property of $\cong \angle$ s - Version 2)**

Given: $\angle 1 \cong \angle 2$
 $\angle ABC \cong \angle XYZ$

Prove: $\angle 3 \cong \angle 4$



Statements

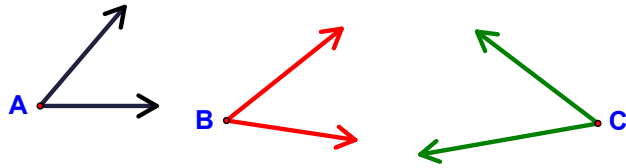
Reasons

Statements	Reasons

Theorem 16 - If segments (or \angle s) are \cong to the same segment (or \angle), they are \cong to each other (Transitive Property of \cong Segments or \angle s - Version 1).

Given: $\angle A \cong \angle B$
 $\angle A \cong \angle C$

Prove: $\angle B \cong \angle C$



Statements

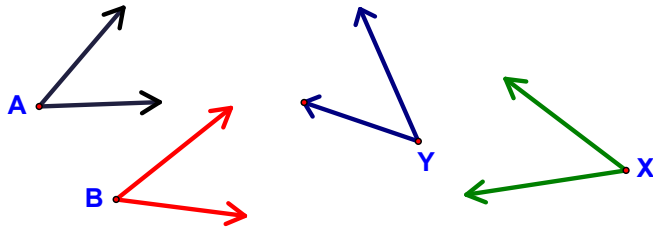
Reasons

Statements	Reasons

Theorem 17 - If segments (or \angle s) are \cong to \cong segments (or \angle s), they are \cong to each other (Transitive Property of \cong Segments or \angle s - Version 2).

Given: $\angle A \cong \angle X$
 $\angle B \cong \angle Y$
 $\angle X \cong \angle Y$

Prove: $\angle A \cong \angle B$



Statements

Reasons

Statements	Reasons

