

video examples

Given:  $\angle 1$  &  $\angle 2$  are supp.  
 Prove:  $l \parallel m$

Statements	Reasons
1. $\angle 1 \hat{=} \angle 2$ R supp.	1. Given
2. $m\angle 1 + m\angle 2 = 180^\circ$	2. Def of supp. $\angle$ 's
3. $l \parallel m$	3. If SSIA R supp. $\Rightarrow \Leftrightarrow$ R //.

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Given:  $\angle 1$  &  $\angle 2$  are supp.  
 Prove:  $\angle 1 \cong \angle 3$

Statements	Reasons
1. $\angle 1 \hat{=} \angle 2$ R supp.	1. Given
2. $m\angle 1 + m\angle 2 = 180^\circ$	2. Def of supp. $\angle$ 's
3. $l \parallel m$	3. If SSIA R supp. $\Rightarrow \Leftrightarrow$ R //.
4. $\angle 1 \cong \angle 3$	4. If $\Leftrightarrow$ R // $\Rightarrow$ corr $\angle$ 's R $\cong$ .

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Statement	Reason
1.) $m\angle 1 \cong m\angle 3$	1.) Given
$\overline{AC} \parallel \overline{BD}$	1.) Given

Statements	Reasons
1.) $m\angle 1 = m\angle 3$ $\overline{AC} \parallel \overline{BD}$	1.) Given
2.) $\angle 1 \cong \angle 3$	2.) If $= \Rightarrow \cong$ .
3.) $\angle 2 \cong \angle 3$	3.) If seg. $R \parallel \Rightarrow$ Corr $\angle$ 's $R \cong$
4.) $\angle 3 \cong \angle 2$	4.) Symmetric POC
5.) $\angle 1 \cong \angle 2$	5.) Transitive POC
6.) $\overline{AB} \parallel \overline{CD}$	6.) If $\angle A \cong \angle R \Rightarrow$ seg $R \parallel$ .

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

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if  $\angle 3 \cong \angle 6$ ,  
 $\Rightarrow a \parallel b$

Given:  $\angle 3 \cong \angle 6$   
 $m\angle 3 = m\angle 6$

Prove:  $a \parallel b$

Statements	Reasons
1. $\angle 3 \cong \angle 6$	1. Given
2. $a \parallel b$	2. If $\angle A \cong \angle R \Rightarrow$ $\Rightarrow R \parallel$ .

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