

**1.**  $\angle 3 \cong \angle 2$

**5.**  $m\angle 1 + m\angle 2 = 180$

**2.**  $m\angle 3 + m\angle 2 = 180$

**6.**  $m\angle 1 = m\angle 3$

**3.**  $\angle 1 \cong \angle 3$

**7.**  $\angle 2 \cong \angle 3$

**4.**  $\angle 1 \cong \angle 2$

**8.**  $\angle 3 \cong \angle 4$

**9.**  $\angle 1 \cong \angle 4$

**10.**  $m\angle 2 = m\angle 4$

13.  $\angle 2 \cong \angle 4$

11.  $a \parallel b$

12.  $m\angle 1 + m\angle 4 = 180$

14.  $l \parallel m$

**B.**

If  $\angle$ s are linear pair,  
then  $\angle$ s are  
supplementary

**C.**

Transitive property  
 $\cong$   
 $\cong$

**D.**

If  $\parallel$  lines are cut by a trans.,  
then corresponding  $\angle$ s are  $\cong$ .

**E.**

If vertical  $\angle$ s, then  $\cong$

**F.**

Substitution property  
 $=$

**G.**

If  $\parallel$  lines are cut by a trans.,  
then corresponding  $\angle$ s are  $\cong$ .

**A.**

If  $\cong$ , then  $=$

If  $=$ , then  $\cong$

**H.**

Symmetric property

$\cong$

**I.**

Given

**J.**

Transitive property

$=$

**K.**

If  $\parallel$  lines are cut by a trans.,  
then alt. interior  $\angle$ s are  $\cong$ .

**L.**

Reflexive property

$=$

**M.**

Reflexive property

$\cong$

**N.**

If 2 lines are cut by a trans. so that  
corr.  $\angle$ s are  $\cong$ , then lines are  $\parallel$ .

**O.**

If 2 lines are cut by a trans.  
and alt. int.  $\angle$ s are  $\cong$ ,  
then lines are  $\parallel$ .

**P.**

If right  $\angle$ s, then  $\cong$

**15.**  
 $\angle 1$  and  $\angle 2$   
are a linear pair

**Q.**  
Definition of  
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