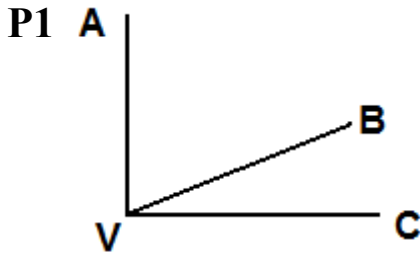
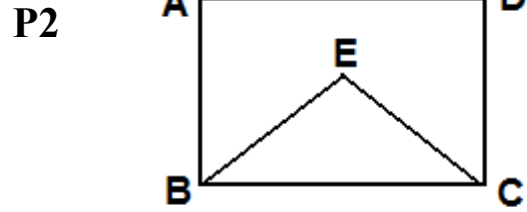


## Geometry – Proof Review – Test 2

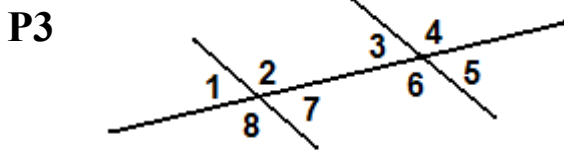


Given:  $\angle AVB$  and  $\angle BVC$  are complementary  
 Prove:  $\angle AVC$  is a right angle

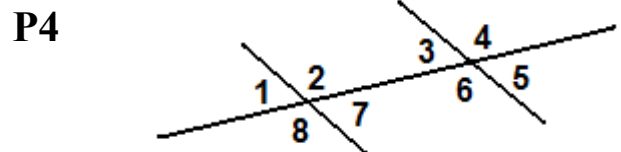


Given:  
 $\angle ABC$  and  $\angle DCB$  are right angles  
 $\angle ABE \cong \angle DCE$

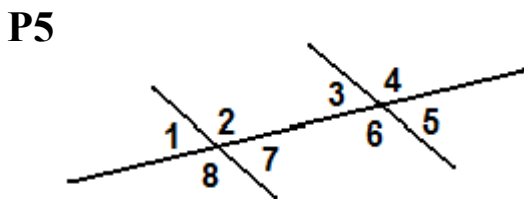
Prove:  
 $\angle EBC \cong \angle ECB$



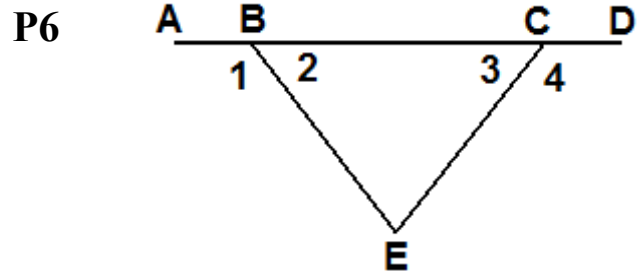
Given:  $\angle 8 \cong \angle 4$   
 Prove:  $\angle 7 \cong \angle 3$



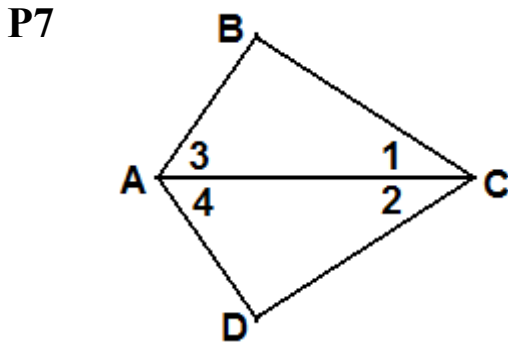
Given:  $\angle 2 \cong \angle 6$   
 Prove:  $\angle 8 \cong \angle 4$



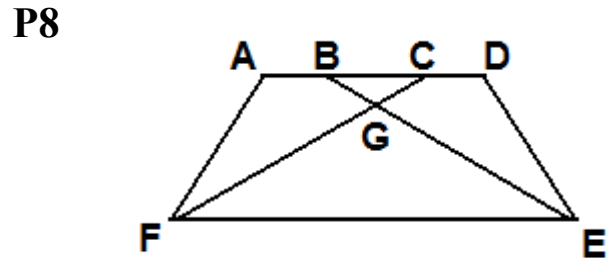
Given:  $\angle 1 \cong \angle 3$   
 Prove:  $\angle 2$  and  $\angle 3$   
 are supplementary



Given:  $\angle 2 \cong \angle 3$   
 Prove:  $\angle 1 \cong \angle 4$

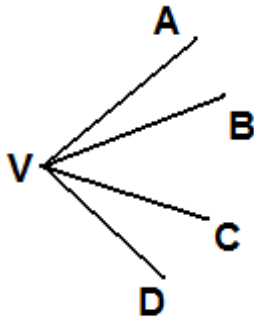


Given:  $\angle 1$  is complementary to  $\angle 4$   
 $\angle 2$  is complementary to  $\angle 3$   
 $\overline{AC}$  bisects  $\angle BAD$   
 Prove:  $\overline{AC}$  bisects  $\angle BCD$



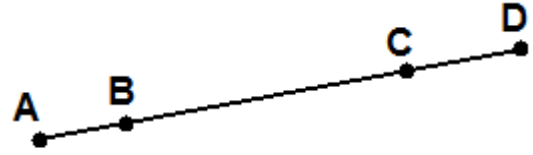
Given:  $\angle AFE \cong \angle DEF$   
 $\overline{FC}$  bisects  $\angle AFE$   
 $\overline{EB}$  bisects  $\angle DEF$   
 Prove:  $\angle AFC \cong \angle DEB$

P9



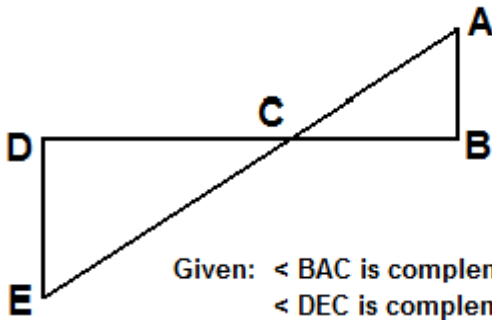
Given:  $\angle AVC \cong \angle BVD$   
 Prove:  $\angle AVB \cong \angle CVD$

P10



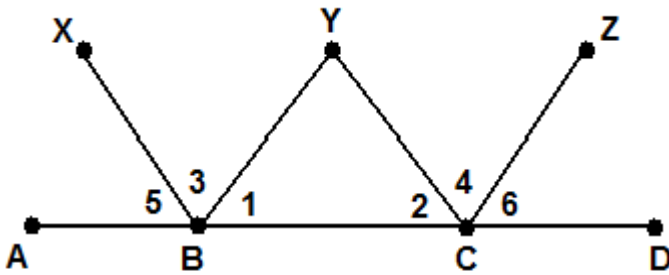
Given:  $\overline{AB} \cong \overline{CD}$   
 Prove:  $\overline{AC} \cong \overline{BD}$

P11



Given:  $\angle BAC$  is complementary to  $\angle ACB$   
 $\angle DEC$  is complementary to  $\angle ECD$   
 Prove:  $\angle BAC \cong \angle DEC$

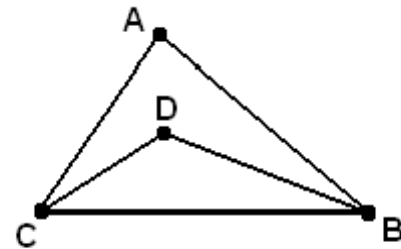
P13



Given:  $\angle 1 \cong \angle 2$   
 $\overline{BX}$  bisects  $\angle AXY$   
 $\overline{CZ}$  bisects  $\angle YCD$

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

P14



Given:  $m\angle A + m\angle ABC + m\angle ACB = 180$   
 $m\angle D + m\angle DBC + m\angle DCB = 180$   
 $\overline{BD}$  bisects  $\angle ABC$ ;  $\overline{CD}$  bisects  $\angle ACB$

Prove:  $m\angle D = 90 + \frac{m\angle A}{2}$