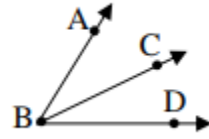
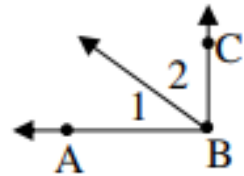


WS – Geometric Proof 1

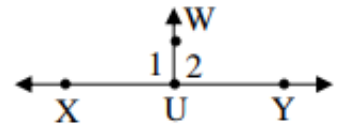
1. Given:  $m\angle ABC = m\angle CBD$   
Prove:  $\overrightarrow{BC}$  is the angle bisector of  $\angle ABD$



2. Given:  $\angle ABC$  is a right angle  
Prove:  $\angle 1$  and  $\angle 2$  are complementary



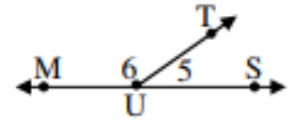
3. Given:  $m\angle 1 = 90^\circ$   
Prove:  $m\angle 2 = 90^\circ$



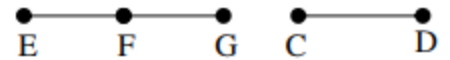
4. Given:  $AB = BC$ ,  $BC = BD$   
Prove:  $B$  is the midpoint of  $AD$



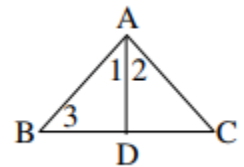
5. Given:  $m\angle 5 = 47^\circ$   
 Prove:  $m\angle 6 = 133^\circ$



6. Given:  $\overline{CD} \cong \overline{EF}$ ,  $\overline{CD} \cong \overline{FG}$   
 Prove:  $F$  is the midpoint of  $\overline{EG}$



7. Given:  $\overline{AD}$  bisects  $\angle BAC$ ,  $\angle 1 \cong \angle 3$   
 Prove:  $\angle 2 \cong \angle 3$



8. Given:  $\overline{EF} \perp \overline{EG}$ ,  $D$  is in the interior of  $\angle FEG$   
 Prove:  $\angle FED$  and  $\angle DEG$  are complementary

