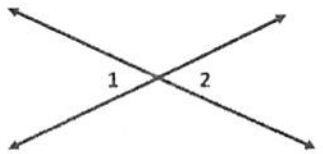
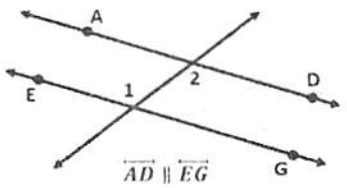
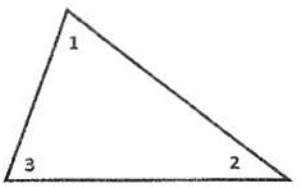
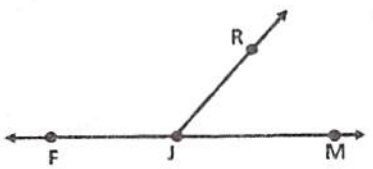
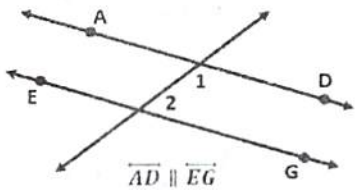
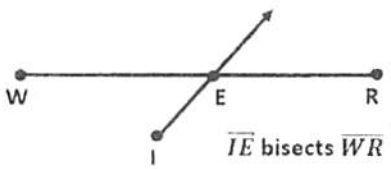
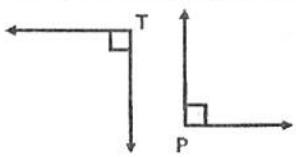
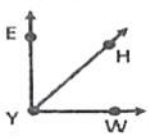
Directions: Complete the chart.

GIVEN	STATEMENT	REASON
	• $\angle 1 \cong \angle 2$ • $m\angle 1 = m\angle 2$	• vert. ∠'s are ≅ • def. ≅ ∠'s
	• $\angle 1 \cong \angle 2$ • $m\angle 1 = m\angle 2$	• ∥ lines & trans → ≅ alt. int. ∠'s • def. ≅ ∠'s
	• $m\angle 1 + m\angle 2 + m\angle 3 = 180°$	△ Sum Thm
	• $m\angle FJR + m\angle RJM = m\angle FJM$ • $m\angle FJM = 180°$ • $m\angle FJR + m\angle RJM = 180°$	• ∠ Add Post. • def. straight ∠ • substitution
	• $m\angle 1 + m\angle 2 = 180°$	• ∥ lines & trans → same side int ∠'s are supp.
$\angle A$ and $\angle B$ are complementary	• $m\angle A + m\angle B = 90°$	• def. of comp. ∠'s
$\overline{RW} \cong \overline{JP}$	• $RW = JP$	• def. of ≅ seg.
	• $UG + GA = UA$	• seg. Add. Post.

GIVEN	STATEMENT	REASON
 $\overleftrightarrow{IE}$ bisects $\overline{WR}$	· $\overline{WE} \cong \overline{ER}$	· def. bisector
∠A is a straight angle	· m∠A = 180°	· def. straight ∠
m∠A + m∠B = 180° m∠A = m∠C	· m∠C + m∠B = 180° · ∠C & ∠B are supp.	· subst. prop. · def. supp. ∠'s
$\angle ABC \cong \angle DEF$	· m∠ABC = m∠DEF	· def. ≅ ∠'s
	· ∠T ≅ ∠P m∠T = m∠P m∠T = 90°, m∠P = 90°	· Right ∠'s are ≅. · def. ≅ ∠'s · def. of right ∠'s
 $\overrightarrow{YH}$ bisects $\angle WYE$	· ∠EYH ≅ ∠HYW	· def. bisector
m∠1 = 45° m∠2 = 45°	· m∠1 = m∠2 · ∠1 ≅ ∠2	· subst. prop. · def. ≅ ∠'s
AB + BC = AC JK + KL = JL AC = JL	· AB + BC = JK + KL	· subst. prop.
m∠2 + m∠3 = 90°	· ∠2 & ∠3 are comp.	· def. comp. ∠'s
$\angle R$ and $\angle G$ form a linear pair	· m∠R + m∠G = 180°	· Linear Pair Thm