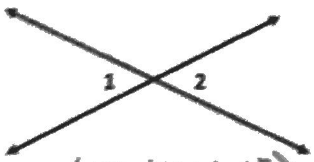
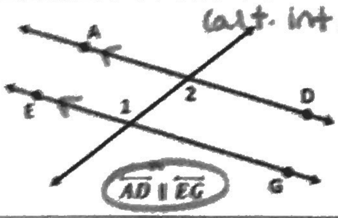
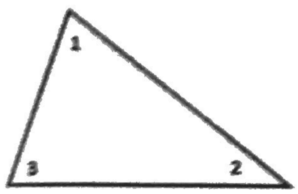
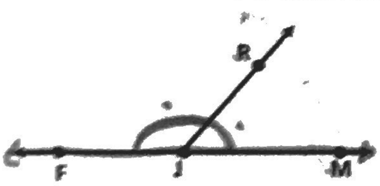
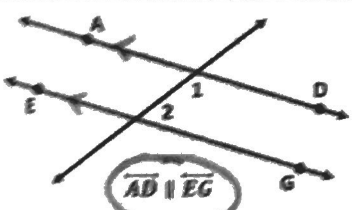
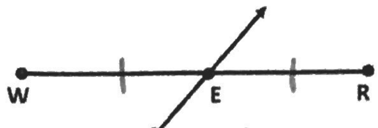
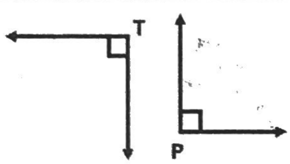
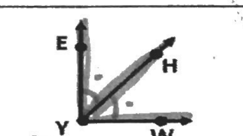
Directions: Complete the chart.

GIVEN	STATEMENT	REASON
 (vertical ∠'s)	$\angle 1 \cong \angle 2$ → $m\angle 1 = m\angle 2$ →	Def. of Vertical ∠'s. Def. of congruence ($\cong$)
(alt. int ∠'s) 	$\angle 1 \cong \angle 2$ → $m\angle 1 = m\angle 2$ →	Alt. int ∠'s Theorem Def. of $\cong$
	$m\angle 1 + m\angle 2 + m\angle 3 = 180°$	Triangle Sum Theorem
	- $m\angle FJR + m\angle RJM = 180°$ → - $\angle FJR$ & $\angle RJM$ are supplementary →	Def. of Linear Pair Def of supplementary angles
	$m\angle 1 + m\angle 2 = 180°$ →	Same side int. ∠'s Theorem
$\angle A$ and $\angle B$ are complementary	$m\angle A + m\angle B = 90°$	Def. of Complementary ∠'s.
$\overline{RW} \cong \overline{JP}$	$RW = JP$ (measure of seg. RW is = to seg JP)	- Def. of $\cong$ Segments
	$\overline{UG} + \overline{GA} = \overline{UA}$	Segment Addition Postulate

GIVEN	STATEMENT	REASON
 $\overrightarrow{IE}$ bisects $\overline{WR}$	$\overline{WE} \cong \overline{ER}$	Def. of bisector
$\angle A$ is a straight angle	$m\angle A = 180°$	Def. of Straight $\angle$.
$m\angle A + m\angle B = 180°$ $m\angle A = m\angle C$	$\angle A$ & $\angle B$ are supp. → $m\angle C + m\angle B = 180°$ → $\angle C$ & $\angle B$ are supp →	Def. of supp. $\angle$'s Substitution prop. Def. of supp $\angle$'s
$\angle ABC \cong \angle DEF$	$m\angle ABC = m\angle DEF$	Def. of $\cong$ $\angle$'s
	$m\angle T = 90°$ $m\angle P = 90°$ $\angle T \cong \angle P$	Def. of right $\angle$'s Right $\angle$'s are $\cong$.
 $\overrightarrow{YH}$ bisects $\angle WYE$	$\angle EYH \cong \angle HYW$ $\angle EYH + \angle HYW = \angle EYW$	Def of bisector Angle Addition Postulate
$m\angle 1 = 45°$ $m\angle 2 = 45°$	$m\angle 1 + m\angle 2 = 90°$ $\angle 1$ & $\angle 2$ are complementary	Angle Add. Postulate Def. of comp. $\angle$'s
AB + BC = AC JK + KL = JL AC = JL	AB+BC = JK+KL	Substitution property
$m\angle 2 + m\angle 3 = 90°$	$\angle 2$ & $\angle 3$ are complementary	Def. of complementary $\angle$'s
$\angle R$ and $\angle G$ form a linear pair	$m\angle R + m\angle G = 180°$ $\angle R$ & $\angle G$ are supplementary	Def. of Linear Pair Def. of supplementary $\angle$'s.