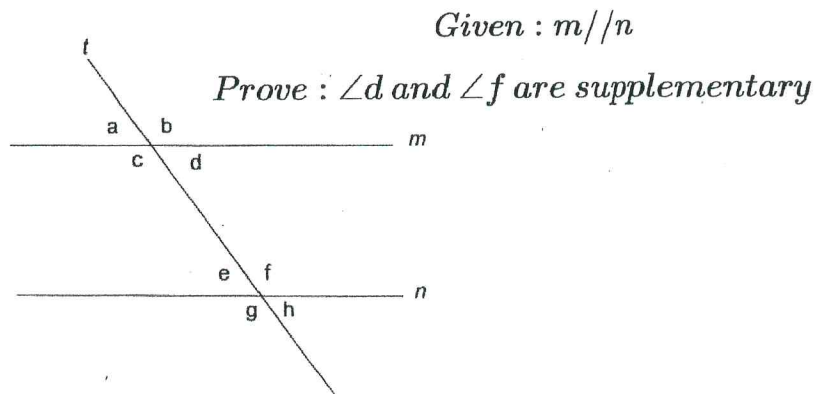
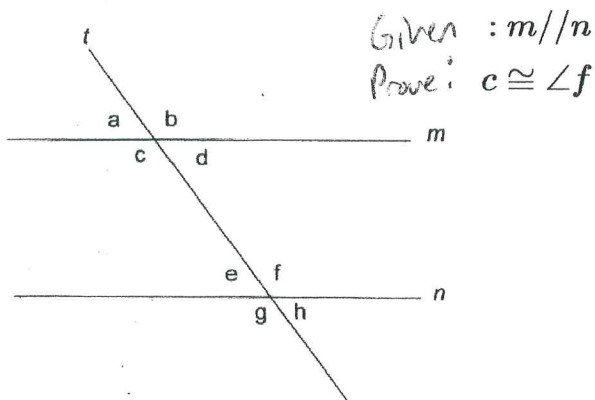
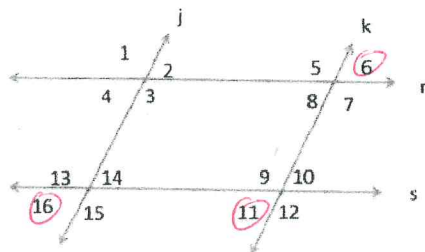


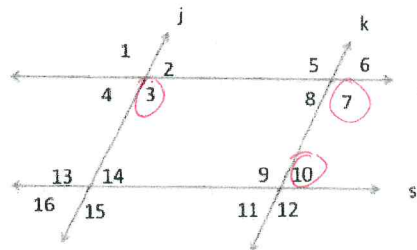


Steps	Justifications
1) $m \parallel n$	1) Given
2) $\angle c \cong \angle g$	2) Corresponding angle Theorem
3) $\angle g \cong \angle f$	3) Vertical Angle Theorem
4) $\angle c \cong \angle f$	4) Transitive Property

Steps	Justifications
1) $m \parallel n$	1) Given
2) $\angle d \cong \angle e$	2) Alternate Interior Angle Theorem
3) $\angle e$ and $\angle f$ are supplementary	3) Linear pair Theorem
4) $\angle d$ and $\angle f$ are supplementary	4) Substitution



Given : $r \parallel s$ and $\angle 6 \cong \angle 16$
 Prove : $j \parallel k$



Given : $j \parallel k$ and $\angle 3$ and $\angle 10$ are supplementary
 Prove : $r \parallel s$

Steps	Justifications
1) $r \parallel s$ and $\angle 6 \cong \angle 16$	1) Given
2) $\angle 6 \cong \angle 11$	2) Alternate Interior Angle Theorem
3) $\angle 11 \cong \angle 16$	3) Substitution (or transitive Property)
4) $j \parallel k$	4) Converse to the corresponding Angle Theorem.

Steps	Justifications
1) $j \parallel k$ and $\angle 3$ and $\angle 10$ are supp.	1) Given
2) $\angle 3 \cong \angle 7$	2) Corresponding angle Theorem
3) $\angle 7$ and $\angle 10$ are supplementary	3) Substitution
4) $r \parallel s$	4) Converse to the same side interior angle Theorem.