Complete the below proofs.

Proof #1 (This proof is from Section 2-2)

Given: GO = EM   Prove: GE = OM
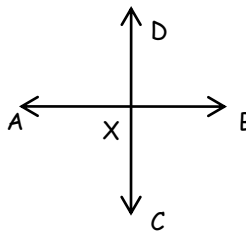
G ●————————● E ————————————● O ————————● M

Statements	Reasons
1. _____	1. _____
2. _____ _____	2. _____
3. _____	3. _____
4. _____	4. _____

Proof #2 (This proof is from Section 2-5)

Given: ∠AXD ≅ ∠DXB

Prove: AB ⊥ DC

(diagram: D at top, A and B horizontal with X center, C at bottom)

Statements	Reasons
1. _____	1. _____
2. _____	2. _____
3. _____ _____	3. _____
4. _____	4. _____
5. _____	5. _____
6. _____	6. _____

Proof #3 (This proof is from Section 3-2)

Given: $k \parallel l$

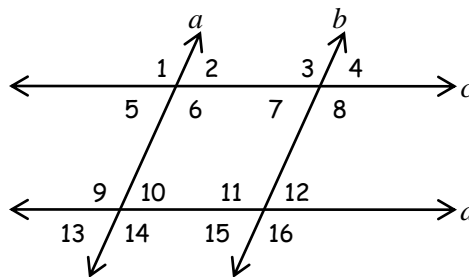Prove: ∠2 is supplementary to ∠8

(diagram: transversal t crossing lines k and l; angles 2, 6, 1, 5 at line k; angles 4, 8, 3, 7 at line l)
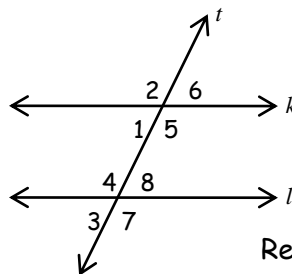
Statements	Reasons
1. _____	1. _____
2. _____	2. Angle Addition Postulate/Def. of Linear Pair
3. ∠1 ≅ ∠____ ; _____ = _____	3. If lines are parallel, then _____ _____
4. _____	4. Substitution
5. _____	5. _____

Proof #4 (This proof is from Section 3-3)

Given: $a \parallel b$; $\angle 7 \cong \angle 10$

Prove: $c \parallel d$

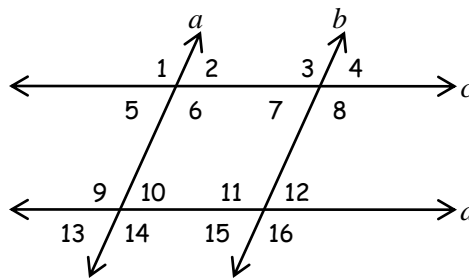| Statements	Reasons
1. $a \parallel b$	1. _____
2. $\angle 2 \cong \angle 7$	2. _____ _____
3. _____	3. Given
4. $\angle 2 \cong \angle 10$	4. _____
5. _____	5. _____ _____

Proof #5 (This proof is from Section 3-2)

Given: $a \parallel b$; $c \parallel d$

Prove: $\angle 1$ is supplementary to $\angle 12$

Statements	Reasons
1. _____	1. Given
2. $\angle 1 \cong \angle$ ____	2. Vertical Angle Theorem
3. $\angle$ ____ $\cong \angle$ ____	3. _____ _____ _____
4. $\angle 1 \cong \angle 8$; $m\angle 1 = m\angle 8$	4. _____
5. _____	5. Given
6. $\angle 8$ and $\angle 12$ are supplementary	6. If lines are parallel, then _____ _____
7. _____	7. Definition of supplementary angles
8. $m\angle 1 + m\angle 12 = 180$	8. _____
9. _____	9. Definition of _____