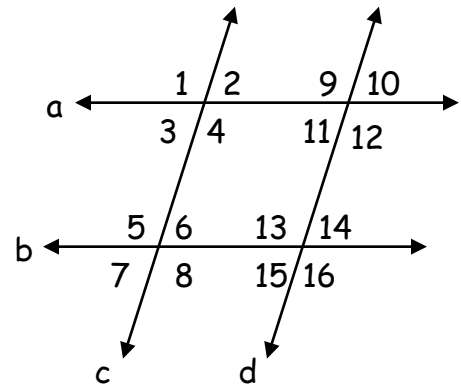


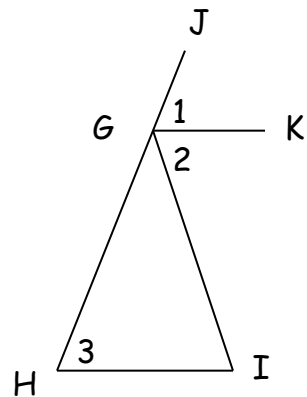
Section I - Determine which lines, if any, are parallel based on the given information.

- 1.) $\angle 1 \cong \angle 9$ _____
- 2.) $\angle 1 \cong \angle 4$ _____
- 3.) $m\angle 12 + m\angle 14 = 180$ _____
- 4.) $\angle 1 \cong \angle 13$ _____
- 5.) $\angle 7 \cong \angle 14$ _____
- 6.) $m\angle 13 = m\angle 11$ _____



Section II - Proofs

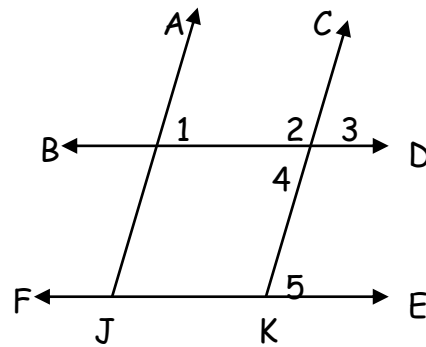
- 1. Given: GK bisects $\angle JGI$; $\angle 3 \cong \angle 2$
 Prove: $GK \parallel HI$



Statements	Reasons
1. _____	1. Given
2. $\angle 1 \cong \angle 2$	2. _____
3. _____	3. Given
4. _____	4. _____
5. _____	5. If corresponding angles are congruent, then the lines are parallel.

2. Given: $AJ \parallel CK$; $m\angle 1 = m\angle 5$

Prove: $BD \parallel FE$

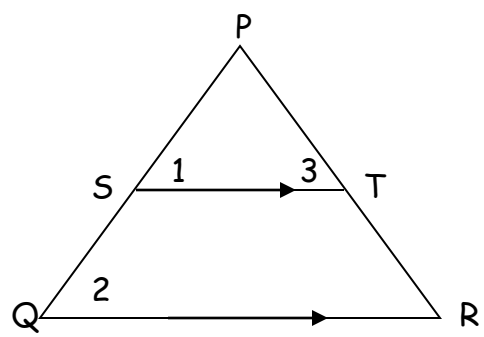


Statements
1. _____
2. $m\angle 1 = m\angle 3$; $\angle 1 \cong \angle 3$
3. _____
4. _____
5. _____

Reasons
1. Given
2. _____
3. Given
4. Substitution
5. _____

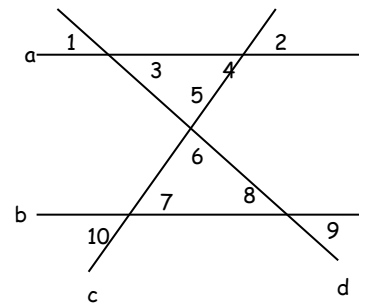
3. Given: $ST \parallel QR$; $\angle 1 \cong \angle 3$

Prove: $\angle 2 \cong \angle 3$



Statements
1. _____
2. $\angle 1 \cong \angle 2$
3. _____
4. _____

Reasons
1. _____
2. _____
3. Given
4. _____



4. Given: $a \parallel b$; $\angle 3 \cong \angle 4$

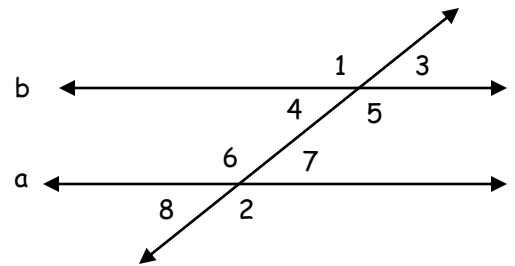
Prove: $\angle 10 \cong \angle 1$

Statements	Reasons
1. _____	1. Given
2. $\angle 1 \cong \angle 3$	2. _____
3. _____	3. Substitution
4. $a \parallel b$	4. _____
5. $\angle 4 \cong \angle 7$	5. _____
6. _____	6. Substitution
7. $\angle 7 \cong \angle 10$	7. _____
8. _____	8. Substitution

5. Given: $a \parallel b$

Prove: $\angle 1$ and $\angle 7$ are supplementary

(We've completed this proof numerous times in class. It may take you more steps than this.)



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