

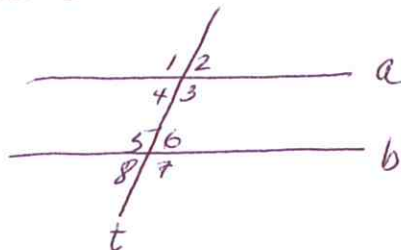
Proofs - Given Parallel Lines

Prove each of the following with a 2-column proof

1. Prove: If $2 \parallel$, then alternate exterior $\angle$'s are $\cong$

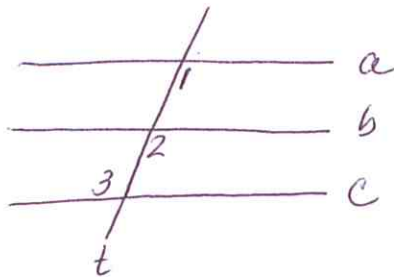
Given: $a \parallel b$

Prove: $\angle 1 \cong \angle 2$



2. Given: $a \parallel b, b \parallel c$

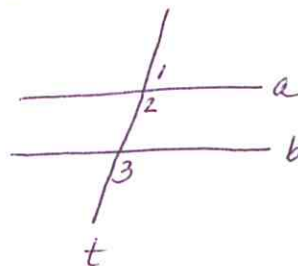
Prove: $\angle 1 \cong \angle 3$



3. Given: $a \parallel b$

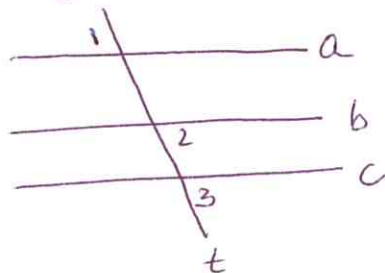
Prove: $\angle 1 + \angle 3$ are supplementary

What theorem is being proven?



4. Given: $a \parallel b, b \parallel c$

Prove: $\angle 1 \cong \angle 3$



5. Given: $a \parallel b, b \parallel c$

Prove: $\angle 1 \cong \angle 4$

