

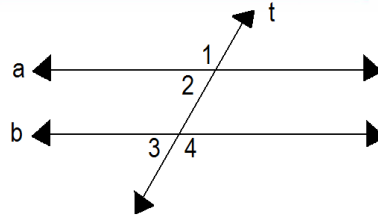
Name: _____ Date: _____

For Problems 1 and 2 write a two column proof for the given theorems:

1. Theorem 3-3: If two parallel lines are cut by a transversal, then the alternate exterior angles are congruent.

Given: $a \parallel b$

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

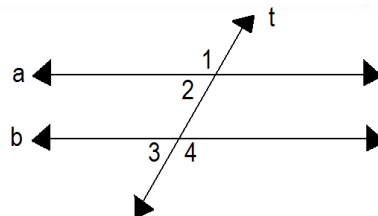


Statements	Reasons

2. Theorem 3-4: If two parallel lines are cut by a transversal, then the same-side exterior angles are supplementary.

Given: $a \parallel b$

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



Statements	Reasons