

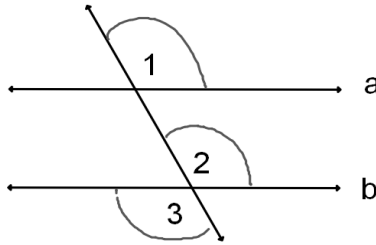
3-2 Using Parallel Lines

Oct 4

Ex. 1

Given:  $a \parallel b$

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

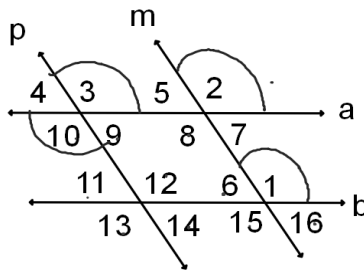


Statements	Reasons
1. $a \parallel b$	1. given
2. $\angle 1 \cong \angle 2$	2. If $\parallel$ lines, corr $\angle$ s $\cong$
3. $\angle 2 \cong \angle 3$	3. vert. $\angle$ s $\cong$
4. $\angle 1 \cong \angle 3$	4. Transitive

Ex. 2

Given:  $a \parallel b, p \parallel m$

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



Statements	Reasons
① $a \parallel b, p \parallel m$	① Given
② $\angle 1 \cong \angle 2$	② If lines $\parallel$ , corr $\angle$ s $\cong$ .
③ $\angle 2 \cong \angle 3$	③ If lines $\parallel$ , corr $\angle$ s $\cong$
④ $\angle 1 \cong \angle 3$	④ transitive
⑤ $\angle 3 \cong \angle 10$	⑤ vert $\angle$ s $\cong$
⑥ $\angle 1 \cong \angle 10$	⑥ transitive

