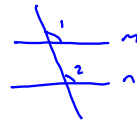


3.4 Proving Lines Parallel

Cond. If P then Q
 Conv If Q then P

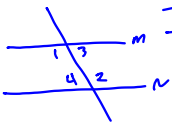
Corresponding \angle Converse P_3



If two lines are cut by a transversal such that the corresponding angles are \cong then the two lines are parallel

If $\angle 1 \cong \angle 2$, then $m \parallel n$

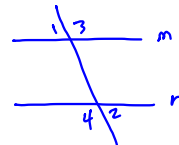
Alt Int \angle 's Converse



If two lines are cut by a transversal such that the Alt Int \angle 's are \cong then the lines are parallel

If $\angle 1 \cong \angle 2$ then $m \parallel n$
 $\angle 3 \cong \angle 4$

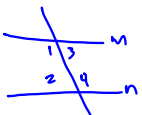
Alt Ext \angle 's Converse



If two lines are cut by a transversal such that the Alt Ext \angle 's are \cong then the lines are parallel

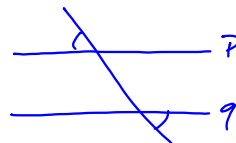
If $\angle 1 \cong \angle 2$ then $m \parallel n$
 $\angle 3 \cong \angle 4$

Consecutive Int \angle 's Converse

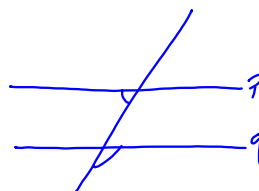


If two lines are cut by a transversal such that the consecutive Int \angle 's are supplementary then the lines are parallel

If $m\angle 1 + m\angle 2 = 180$ then $m \parallel n$
 $m\angle 3 + m\angle 4 = 180$



Alt Ext \angle Conv



No

P 153-154
2-30 even