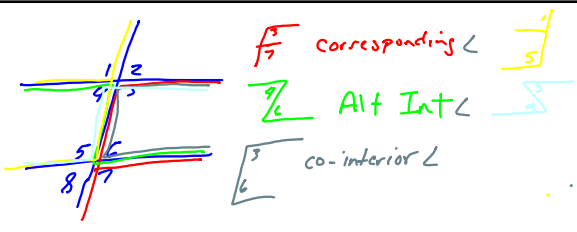
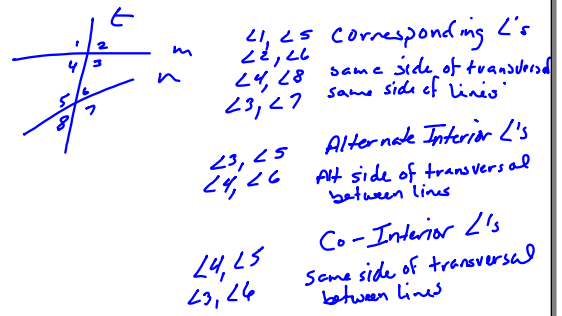
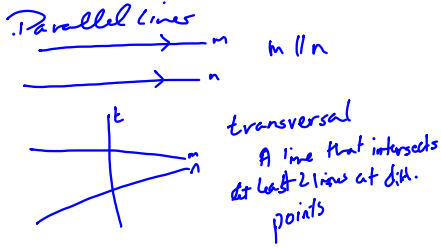
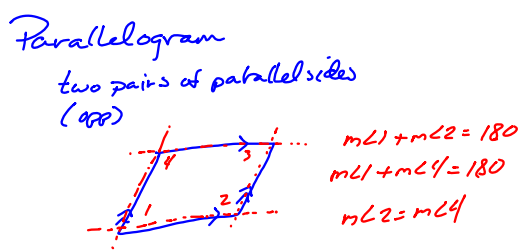
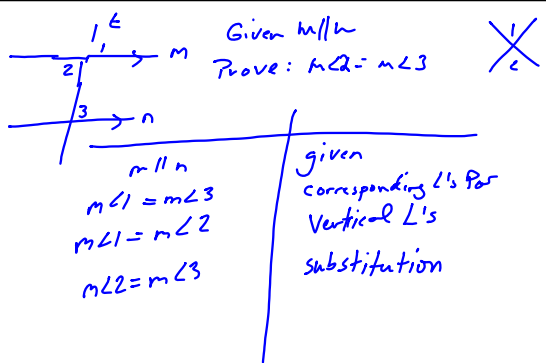


7.8 Proofs on Parallel Lines



If two lines are parallel and cut by a transversal
 Corresponding \angle 's
 then the corresponding \angle 's are congruent
 $m\angle 1 = n\angle 2, m\angle 2 = n\angle 6, m\angle 4 = n\angle 8, m\angle 3 = n\angle 7$
 Alternate Int. \angle 's Then
 then the Alt Int \angle 's are congruent
 $m\angle 3 = n\angle 5, m\angle 4 = n\angle 6$
 Co-Interior \angle 's Then
 then the Co-Interior \angle 's are supplementary
 $m\angle 4 + m\angle 5 = 180^\circ, n\angle 3 + n\angle 6 = 180^\circ$



A quadrilateral is a parallelogram
if ...

1. Consecutive angles are supplementary
2. Opposite angles are congruent