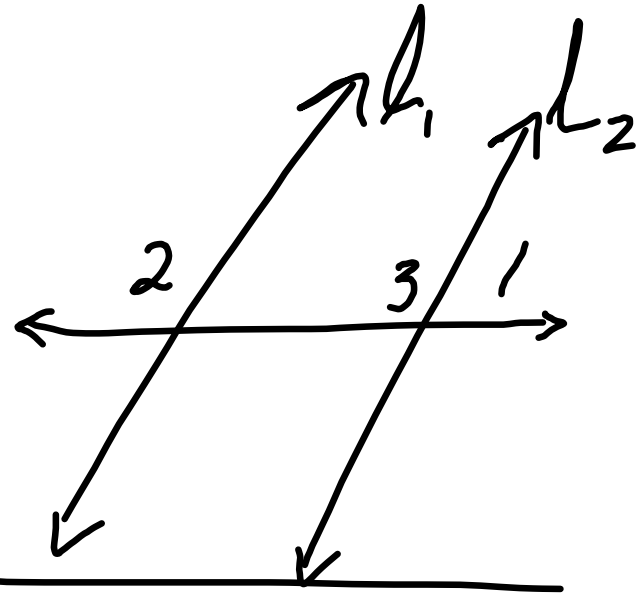


(28)

Given:  $\angle 1, \angle 2$  are supp

Prove:  $l_1 \parallel l_2$



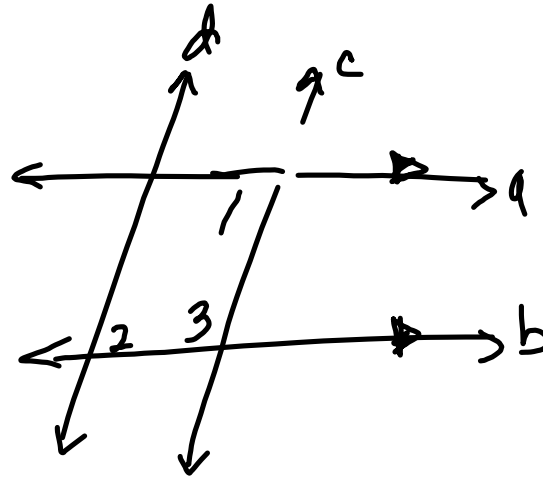
1.  $\angle 1, \angle 2$  are supp
2.  $\angle 1, \angle 3$  are linear pair
3.  $\angle 1, \angle 3$  are supp
4.  $\angle 2 \cong \angle 3$
5.  $l_1 \parallel l_2$

1. Given
2. Def linear pair
3. Linear Pair Post.
4. Congruent Supp Th.
5. Converses  $\angle$ 's Converse

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Given  $a \parallel b$   
 $\angle 1 \cong \angle 2$

Prove:  $c \parallel d$



1.  $a \parallel b$
2.  $\angle 1 \cong \angle 2$
3.  $\angle 1, \angle 3$  are supp
4.  $m\angle 1 + m\angle 3 = 180^\circ$
5.  $m\angle 1 = m\angle 2$
6.  $m\angle 2 + m\angle 3 = 180^\circ$
7.  $\angle 2, \angle 3$  are supp
8.  $c \parallel d$

1. Given
2. Given
3. Same int  $\angle$ 's Th.
4. Def of supp.  $\angle$ 's
5. Def  $\cong$   $\angle$ 's
6. Sub.
7. Def of supp  $\angle$ 's
8. Same side converse