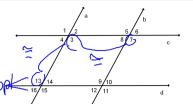
Given: a || b and c || d

Prove: ∠7 & ∠16 are supplementary



Start by planning it out

Statement Reason 1. a || b and c || d 1. Given 2. 27=23

3. 23=213

3. 41+ 1n+ 25

4. 21> Supple 4 Linear Pair

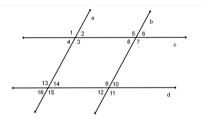
5 27 3upple 5 trans/subst.

3. Write a proof.

Given: a || b and c || d

Prove: $\angle 4 \cong \angle 10$

Start by planning it out.



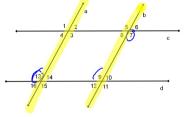
Statement	Reason
1. a b and c d	1. Given

2. Write a proof.

Given: c || d & ∠7(≅)∠13

Prove: a || b

Start by planning it out.



Statement Reason 1. c || d & ∠7 ≅ ∠13

2.67=19

3. 695613

L9=43 y all b

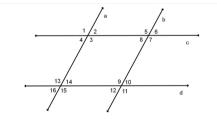
1. Given 2 alt int is 3. Subst 4. b/c corr L's =

4. Write a proof.

Given: a || b and c || d

Prove: $\angle 3 \cong \angle 9$

Start by planning it out.



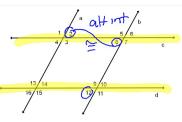
Statement Reason 1. a || b and c || d 1. Given

5. Write a proof.

Given: a || b and $\angle 2 \cong \angle 12$

Prove: c || d

Start by planning it out.



Statement	Reason
=== =	1. Given
2. 22 = 28	3. Subst y corr L's =
3. 18=212	3. 7000
y clld	9 PORR 23 -
7.	

7. Given: c || d and ∠1 & ∠12 are supplementary

Prove: a || b

Start by planning it out



		/	/	
Statement		Reason		
1. c d and ∠1 & ∠12 are suppl	1. Given			

Given: a || b and c || d

Prove: ∠8 & ∠15 are supplementary



Start by planning it out

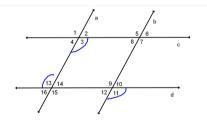
Statement Reason 1. a||band c||d 1. Given

8. Write a proof.

Given: c || d and $\angle 3 \cong \angle 11$

Prove: a || b

Start by planning it out.



Statement Reason 1. c || d and ∠3 ≅ ∠11

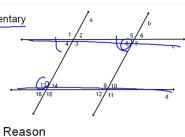
1. Given

2. $\angle 3 \leq \angle 13$ 3. $\angle 13 \leq \angle 11$ 3. Subst 4. alt ext $\angle 3 \leq 21$

9. Given: a || b and $\angle 8$ & $\angle 13$ are supplementary

Prove: c || d

Start by planning it out



Statement 1. a || b and ∠8 & ∠13 are supplementary 1. Given

2. 28 = 24

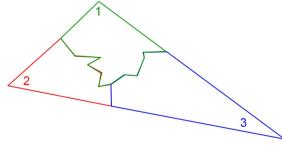
3. 24 \(\frac{1}{2}\) Corv 2\(\frac{1}{2}\)

3. 24 \(\frac{1}{2}\) Cll 2 suppl

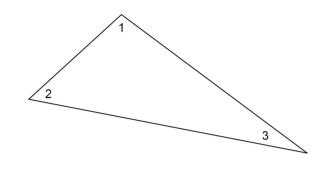
4. Cll 2

4. SSI

Tear the triangle into three pieces, each containing one of the vertices of the triangle.



Draw a triangle and label the angles on the inside of the triangle with the numbers 1, 2, and 3



This shows that the three interior angles of a triangle have a sum of 180°

