Geometry 3.5

Recognize angle pairs that occur with parallel lines

Prove that two lines are parallel

converse

corresponding angles

alternate interior angles

alternate exterior angles Quiz 3.3-3.4

consecutive interior angles

scrambled proofs

Quiz 3.3-3.4

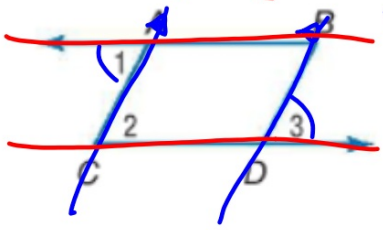
Plan together
Teams put it in writing
(whiteboards)

PROOF Write a two-column proof

25. Given: $\angle 1 \cong \angle 3$

$\overline{AC} \parallel \overline{BD}$

Prove: $\overline{AB} \parallel \overline{CD}$

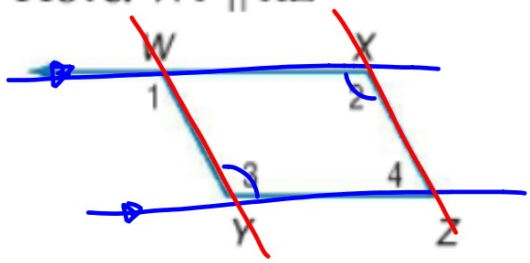


1. $\angle 1 \cong \angle 3$ $\overline{AC} \parallel \overline{BD}$	1. given
2. $\angle 2 \cong \angle 3$	2. CA
3. $\angle 1 \cong \angle 2$	3. Sub PS
4. $\overline{AB} \parallel \overline{CD}$	AIA $\cong$

26. Given: $\overline{WX} \parallel \overline{YZ}$

$\angle 2 \cong \angle 3$

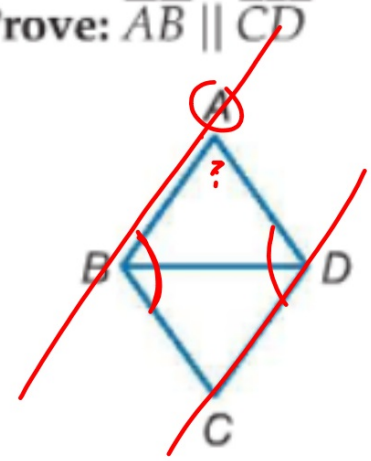
Prove: $\overline{WY} \parallel \overline{XZ}$



27. Given: $\angle ABC \cong \angle ADC$

$m\angle A + m\angle ABC = 180$

Prove: $\overline{AB} \parallel \overline{CD}$



CIA

28. **Given:** $\angle 1 \cong \angle 2$

$\overline{LJ} \perp \overline{ML}$

Prove: $\overline{KM} \perp \overline{ML}$

