

Key!

6.3 Notes: Conditions for Parallelograms

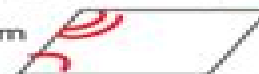
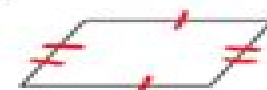


Target: Prove a quadrilateral is a parallelogram in a two column proof.

Target: Show algebraically or in the coordinate plane that a quadrilateral is a parallelogram.

Ways to Prove That a Quadrilateral is a Parallelogram:

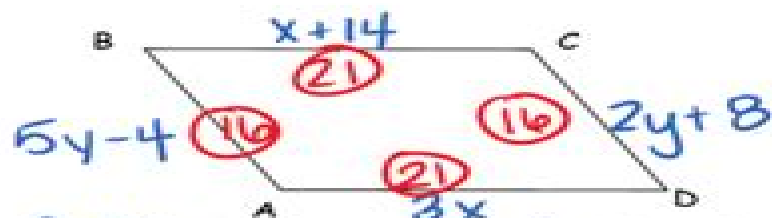
- 1) If both pair opp sides \cong then the quadrilateral is a parallelogram
- 2) If both pair opp sides \parallel then the quadrilateral is a parallelogram
- 3) If both pair opp \angle s \cong then the quadrilateral is a parallelogram
- 4) If diagonals bisect then the quadrilateral is a parallelogram
- 5) If 1 pair opp sides \parallel and \cong then the quadrilateral is a parallelogram
- 6) If consecutive \angle s supp then the quadrilateral is a parallelogram



Let's Practice!

★ Give sts. side lengths ★

- 1) Show that $ABCD$ is a parallelogram for $x = 7$ and $y = 4$



- 2) Show that $ACRS$ is a parallelogram for $a = 2.4$ and $b = 9$.



★ Both pair opp sides $\cong \rightarrow \square$

★ One pair opp sides \cong and \parallel , then \square

For #3-6, determine if each quadrilateral must be a parallelogram. Justify your answer.

- 3) **NO**
one pair \parallel
& another \cong

- 4) **Yes!**
Diagonals bisect each other

- 5) **Yes!**
Both pair opp sides \parallel

- 6) **NO** consecutive sides \cong .

Conditions Of Parallelograms Answers

John F. Schacht, Roderick C. McLennan

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