

LESSON
9-2

Conditions for Parallelograms

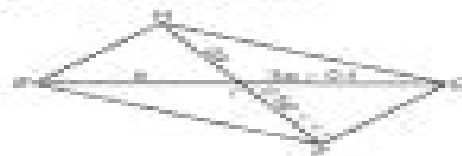
Practice and Problem Solving: A/B

Determine whether the figure is a parallelogram for the given values of the variables. Explain your answers.

1. $x = 3$ and $y = 11$



2. $a = 4.3$ and $b = 13$



A quadrilateral has vertices $E(1, 1)$, $F(4, 5)$, $G(5, 6)$, and $H(3, 2)$. Complete Problems 3–6 to tell whether $EFGH$ is a parallelogram.

3. Plot the vertices and draw $EFGH$.

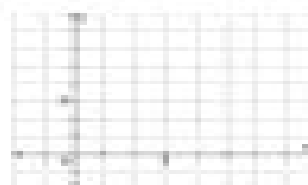
4. Use the Pythagorean Theorem to find the lengths of

sides \overline{EF} and \overline{HG} . $EF =$ _____ $HG =$ _____

5. Use the Slope Formula to find the slopes of sides \overline{EF} and

 \overline{GH} . slope of $\overline{EF} =$ _____ slope of $\overline{GH} =$ _____

6. The answers to Problems 4 and 5 reveal something about Square $EFGH$. State the theorem that uses these facts to prove that $EFGH$ is a parallelogram.



Use the given method to determine whether the quadrilateral with the given vertices is a parallelogram.

7. Find the slopes of all four sides: $J(-4, -1)$, $K(-7, -4)$, $L(2, -10)$, $M(5, -7)$.

8. Find the lengths of all four sides: $P(2, 2)$, $Q(1, -3)$, $R(-4, 2)$, $S(-3, 7)$.

Lesson 5 5 Properties Of Parallelograms Key

Arturo Cuomo



Lesson 5 5 Properties Of Parallelograms Key:

Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners, Doctoral Consortium and Blue Sky Andrew M. Olney,Irene-Angelica Chounta,Zitao Liu,Olga C. Santos,Ig Ibert Bittencourt,2024-07-01 This volume constitutes poster papers and late breaking results presented during the 25th International Conference on Artificial Intelligence in Education AIED 2024 which took place in Recife Brazil during July 8 12 2024 The 18 full papers and 92 short papers were carefully reviewed and selected from 200 submissions They are organized in topical sections as follows Part One Blue Sky Industry Innovation and Practitioner WideAIED and Late Breaking Results Part Two Late Breaking Results Doctoral Consortium Workshops and Tutorials

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