

LESSON
5.1
Properties of Parallelograms
Practice and Problem Solving: A/B

$PQRS$ is a parallelogram. Find each measure.

1. HS _____

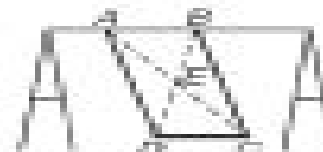
2. $m\angle S$ _____

3. $m\angle R$ _____



The figure shows a swing blown to one side by a breeze. As long as the seat of the swing is parallel to the top bar, the swing makes a parallelogram. In

$\square ABCD$, $BC = 2$ ft, $BE = 4\frac{1}{2}$ ft, and $m\angle BAD = 75^\circ$.



Find each measure.

4. AD _____

5. ED _____

6. BD _____

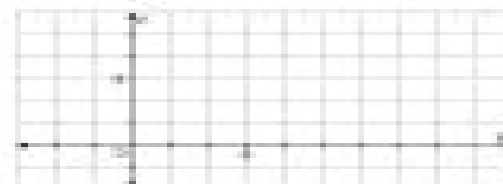
7. $m\angle ABC$ _____

8. $m\angle BCD$ _____

9. $m\angle ADC$ _____

Three vertices of $\square GHJ$ are $G(3, 0)$, $H(2, 3)$, and $J(8, 1)$. Use the grid to the right to complete Problems 10–16.

10. Plot vertices G , H , and J on the coordinate plane.



11. Find the rise (difference in the y-coordinates) from

G to H . _____

12. Find the run (difference in the x-coordinates) from

G to H . _____

13. Using your answers from Problems 11 and 12, add the rise to the y-coordinate of vertex J and add the run to the x-coordinate of vertex J .

These are the coordinates of vertex I . (_____, _____)

14. Plot vertex I . Connect the points to draw $\square GHJ$.

15. Check your answer by finding the slopes of $\overline{HI}$ and $\overline{JG}$.

slope of $\overline{HI}$ = _____ slope of $\overline{JG}$ = _____

16. What do the slopes tell you about $\overline{HI}$ and $\overline{JG}$? _____

Practice Conditions For Parallelograms Practice Problem Solving Answers

Scott C. Dulebohn



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web we utilize the equation that relate amount remaining initial mass and number of half lives $n = \frac{1}{2} \times \log \frac{m_0}{m}$ 125 g 5 what is the half life of an isotope that is 80 remained after 16 days solution remaining 80 100 therefore $n = \log \frac{100}{80}$ now using the half life equation in example 1 we have

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