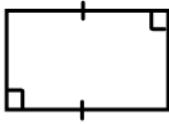


Name _____ Period ____ Date _____

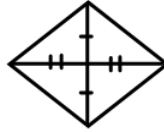
Properties of Parallelograms

Decide whether the figure is a parallelogram. If yes, explain why.

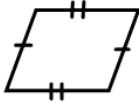
1.



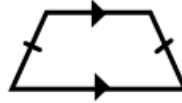
2.



3.

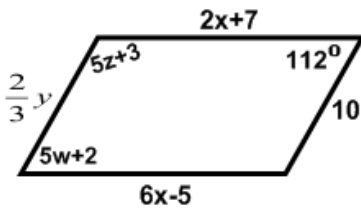


4.

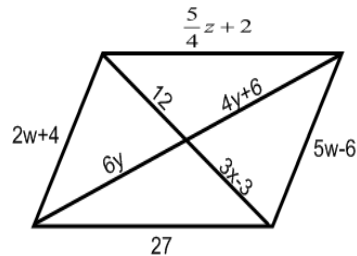


The figure is a parallelogram. Find w , x , y , and z .

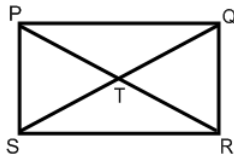
5.



6.



PQRS is a parallelogram. Answer the questions below.



7. If $PQ = 17$, then $SR = \underline{\hspace{2cm}}$.
8. If $m\angle R = 73^\circ$, then $m\angle Q = \underline{\hspace{2cm}}$ and the $m\angle P = \underline{\hspace{2cm}}$.
9. If $PT = 5$, then $TR = \underline{\hspace{2cm}}$ and $PR = \underline{\hspace{2cm}}$.
10. If $QS = 19$, then $ST = \underline{\hspace{2cm}}$.
11. If $PS = 2x^2 - 5$ and $QR = 13$, then $x = \underline{\hspace{2cm}}$.
12. If $m\angle Q = 126^\circ$, then $m\angle R = \underline{\hspace{2cm}}$ and the $m\angle P = \underline{\hspace{2cm}}$.
13. If $QR = 17$, then $SP = \underline{\hspace{2cm}}$.
14. If $SQ = 27$, then $ST = \underline{\hspace{2cm}}$ and $TQ = \underline{\hspace{2cm}}$.
15. If $PT = 11$, then $PR = \underline{\hspace{2cm}}$.

16. If $SR = \frac{5x}{2} - 10$ and $PQ = 15$, then $x = \underline{\hspace{2cm}}$.