

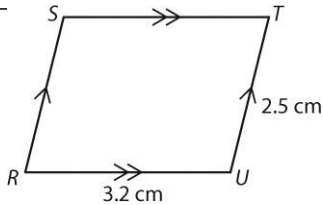
Fill in the blanks with words from the Word Bank to complete each definition or theorem.

1. If a quadrilateral is a parallelogram, then its consecutive angles are _____.
2. If a quadrilateral is a parallelogram, then its opposite sides are _____.
3. If a quadrilateral is a parallelogram, then its diagonals _____ each other.
4. If a quadrilateral is a parallelogram, then its opposite angles are _____.

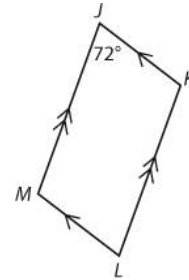
Word Bank
bisect
congruent
parallel
supplementary

Find each measure.

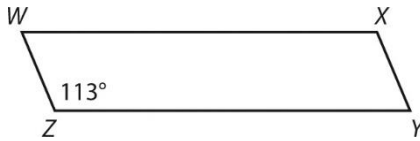
5. RS _____



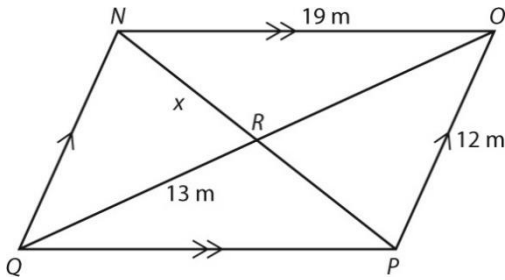
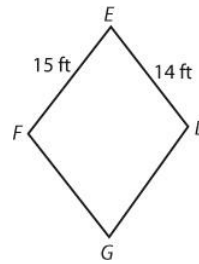
6. $m\angle K$ _____



7. Angle Y of parallelogram WXYZ _____



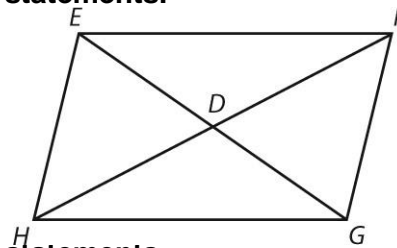
8. Side GD of parallelogram $DEFG$ _____



9. QP _____
10. NQ _____
11. OR _____
12. QO _____
13. NP _____

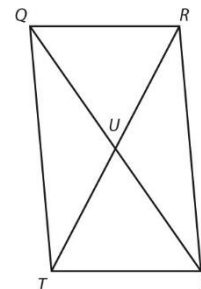
In the figure, $EFGH$ is a parallelogram. Complete the following statements.

14. $\angle HEF \cong$ _____.
15. $\overline{ED} \cong$ _____.
16. $\overline{HG} \cong$ _____.
17. \overline{HF} bisects _____.

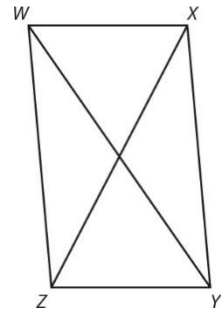


In the figure, $QRST$ is a parallelogram. Complete the following statements.

18. $QR = 16$, $TS =$ _____
19. $m\angle QTS = 95^\circ$, $m\angle SRQ =$ _____
20. $QU = 4$, $SU =$ _____
21. $TR = 20$, $TU =$ _____



Fill in the missing information that would prove that $WXYZ$ is a parallelogram.

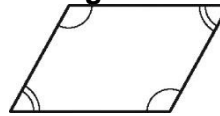


22. $\angle WZY \cong$ _____ and $\angle ZWX \cong$ _____ 23. $\overline{WX} \cong$ _____ and $\overline{WZ} \cong$ _____

24. \overline{WY} and \overline{XZ} _____

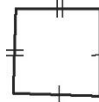
In the figures below, interpret the symbols and conclude if the figure is a parallelogram. Write *parallelogram* or *not a parallelogram*.

25. _____



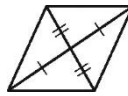
Why or why not? _____

26. _____



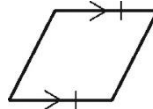
Why or why not? _____

27. _____



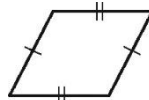
Why or why not? _____

28. _____



Why or why not? _____

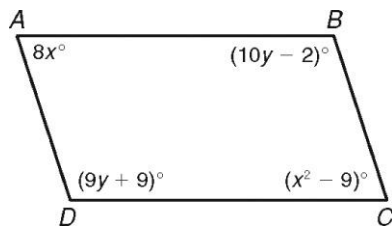
29. _____



Why or why not? _____

Is the figure a parallelogram given the values of the variables? Explain your answers. Show work.

30. $x = 9$ and $y = 11$



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

