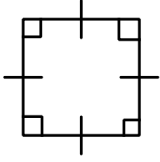


Name: _____

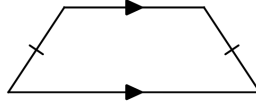
Period: _____

SM2H 7.6 Quadrilaterals Day 1**State all possible names for each figure. List the most specific name first.**

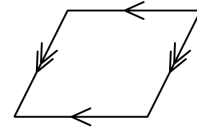
1.



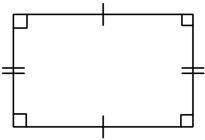
2.



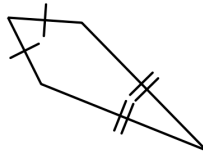
3.



4.



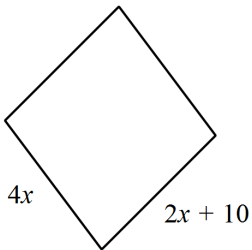
5.



6.

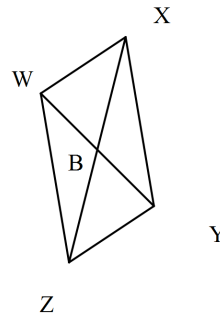
**Given the type of quadrilateral, find x .**

7. Rhombus

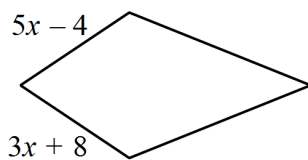


8. Parallelogram

$$WY = 4x + 6, BY = 13$$

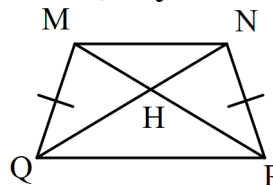


9. Kite



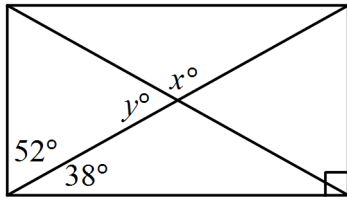
10. Isosceles Trapezoid

$$MP = 2x, NQ = 6x - 8$$

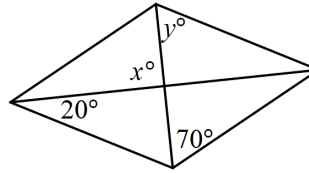


Given the type of quadrilateral, find the angle(s).

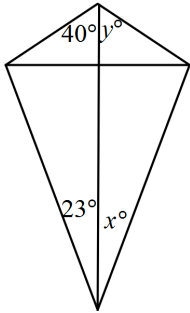
11. Rectangle



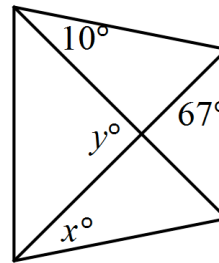
12. Rhombus



13. Kite



14. Isosceles Trapezoid

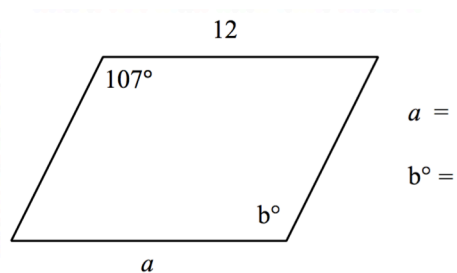


The following sentences are the five properties of parallelograms. Fill in the blanks with the correct word. (congruent, congruent, supplementary, bisect, parallel)

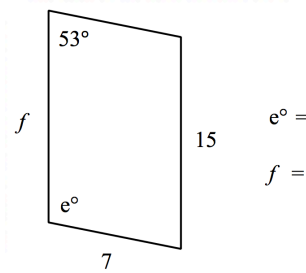
15. Opposite sides are _____.
16. Opposite sides are _____.
17. Opposite angles are _____.
18. Consecutive angles are _____.
19. Diagonals _____ each other.

Find the measure indicated in each parallelogram.

20.

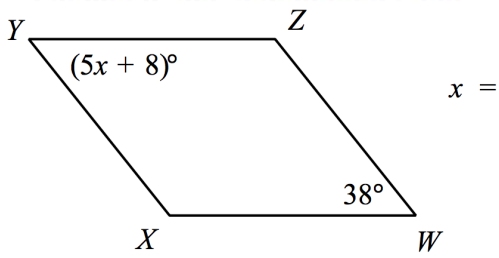


21.

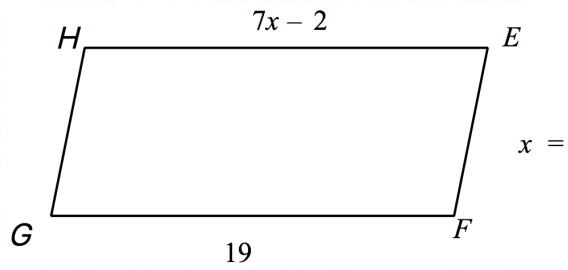


Each figure is a parallelogram. Solve for the missing variables, angles, or segments.

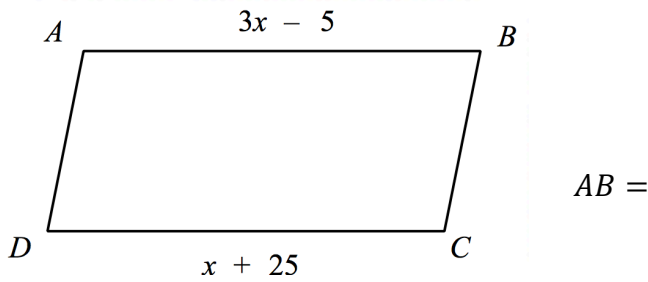
22.



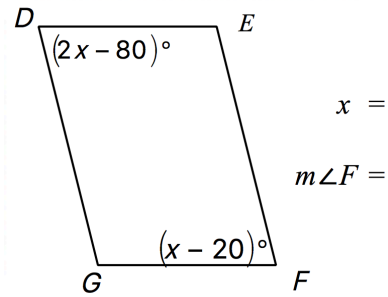
23.



24.

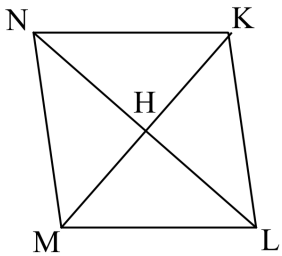


25.

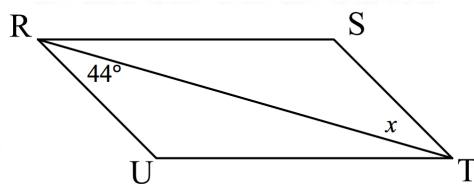


Find the measurement indicated in each parallelogram.

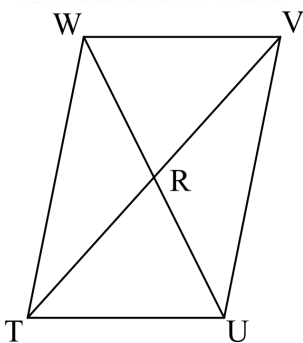
26. $LH = 7$
Find HN



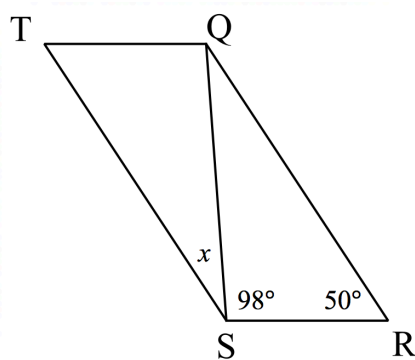
27. Find x



28. $VT = 26$
Find RT

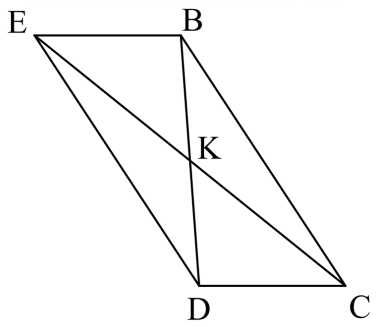


29. Find x

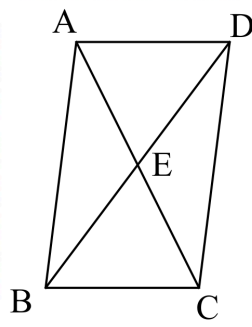


Each figure is a parallelogram. Solve for x .

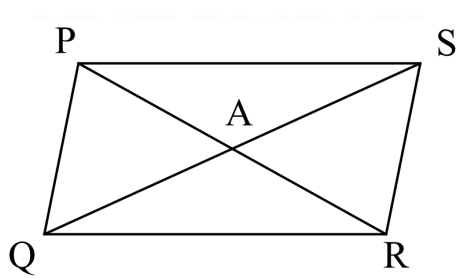
30. $CK = 21$
 $KE = 3x - 9$



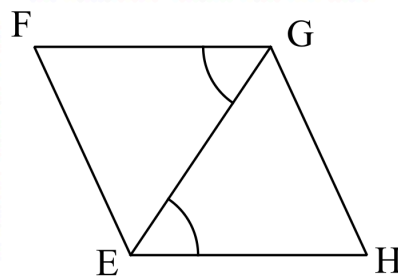
31. $CE = 2x + 5$
 $EA = 13 + x$



32. $AP = 24$
 $RP = 13x - 4$

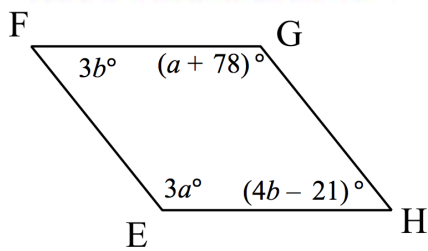


33. $FG = 5x - 8$
 $EH = 2x + 7$

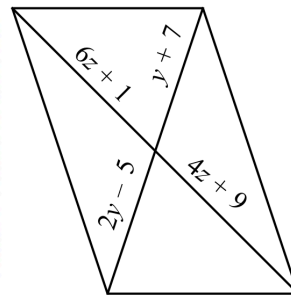


Find the values of the variables in each parallelogram.

34. $a =$ _____ $b =$ _____



35. $y =$ _____ $z =$ _____



$QRST$ is a rectangle. Find the value of x and the length of each diagonal. (Hint: Draw a picture.)

36. $QS = 7x - 5$ and $RT = 3x + 3$

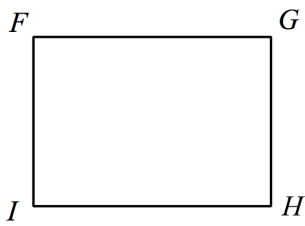
37. $QS = 5x - 8$ and $RT = 2x + 1$

$x =$ _____
 $QS =$ _____
 $RT =$ _____

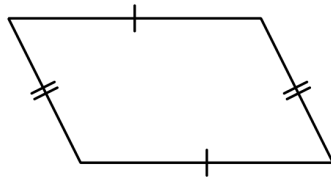
$x =$ _____
 $QS =$ _____
 $RT =$ _____

Can you prove that the quadrilateral is a parallelogram based on the given information? Justify your answer.

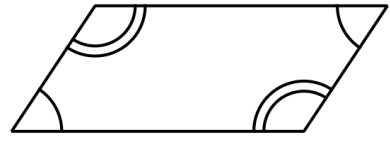
38. $\overline{FG} \parallel \overline{IH}$, $\overline{FI} \parallel \overline{GH}$



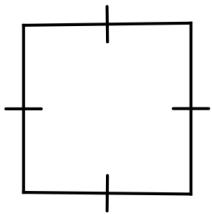
39.



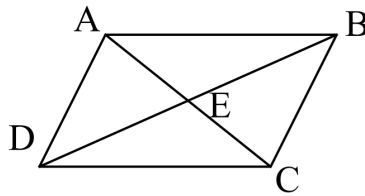
40.



41.



42. $\overline{AE} \cong \overline{EC}$, $\overline{BE} \cong \overline{ED}$



43.

