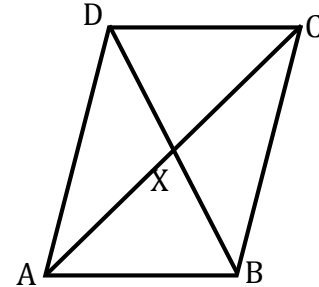


7.2 & 7.3 – PARALLELOGRAMS

Answer the following questions regarding the parallelogram below.

- | |
|--|
| 1. Name the parallelogram: _____ |
| 2. If $AD = 10$, then $BC =$ _____ |
| 3. If $AC = 15$, then $AX =$ _____ |
| 4. If $m\angle CDA = 111^\circ$, then $m\angle ABC =$ _____ |
| 5. If $m\angle DAB = 69^\circ$, then $m\angle ABC =$ _____ |



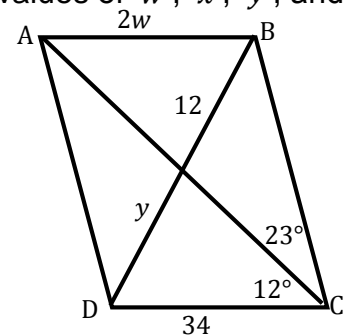
Find the values indicated.

- | |
|--|
| 6. If LMNO is a parallelogram, $LM = 2y - 9$, and $NO = y - 2$, find the value of 'y'. |
| $y =$ _____ |

- | |
|---|
| 7. RSTV is a parallelogram. \overline{RT} and \overline{SV} intersect at Q. $RQ = 5x + 1$ and $QT = 3x + 15$. Find QT. |
| $QT =$ _____ |

- | |
|---|
| 8. RATS is a parallelogram. If $m\angle S = (8x)^\circ$ and $m\angle T = (7x)^\circ$, find the value of 'x'. |
| $x =$ _____ |

- | |
|--|
| 9. ABCD is a parallelogram. $m\angle DAB = x^\circ$ and $m\angle ABC = z^\circ$. Find the values of 'w', 'x', 'y', and 'z'. |
| $w =$ _____ |
| $x =$ _____ |
| $y =$ _____ |
| $z =$ _____ |

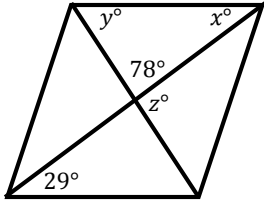


If each quadrilateral is a parallelogram, find the values of 'x', 'y', and 'z'.

10. $x =$ _____

$y =$ _____

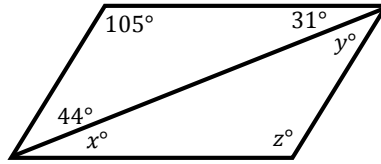
$z =$ _____



11. $x =$ _____

$y =$ _____

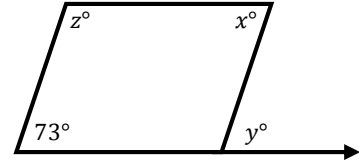
$z =$ _____



12. $x =$ _____

$y =$ _____

$z =$ _____



REVIEW

13. In $\triangle ABC$, $AB = 3$, $BC = 4$ and $AC = 6$. Name the largest angle.

Largest Angle: _____

14. Find the sum of the interior angles of a decagon.

Sum = _____

Use the figure below to answer questions 15 and 16.

15. If $m\angle 7 = (2x + 5)^\circ$ and $m\angle 5 = (4x + 1)^\circ$, find the value of 'x' and $m\angle 2$.

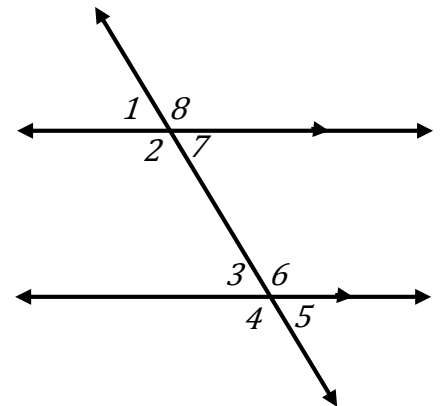
$x =$ _____

$m\angle 2 =$ _____

16. If $m\angle 1 = (3x + 8)^\circ$ and $m\angle 5 = (4x - 2)^\circ$, find the value of 'x' and $m\angle 2$.

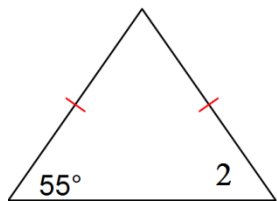
$x =$ _____

$m\angle 2 =$ _____

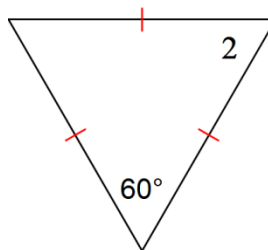


Find the value of 'x'.

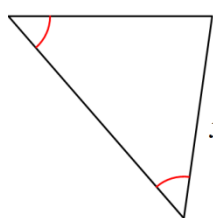
17. $m\angle 2 = 6x - 11$



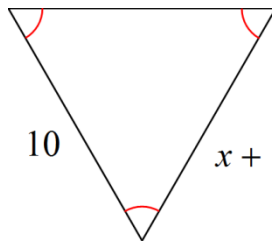
18. $m\angle 2 = x + 68$



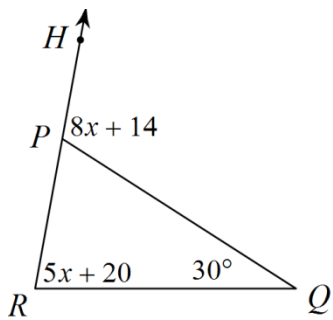
19. 6
 $x + 15$



20. 10
 $x + 16$



21. $8x + 14$
 $5x + 20$ 30°



Two sides of a triangle have the following measures. Find the range of possible measures for the third side.

22. 8, 11