

Ch 8 Test Review

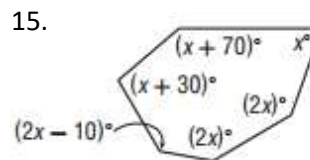
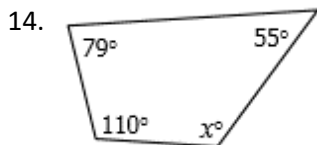
Answer each question about the given polygon

1. Find the sum of the measures of the interior angles of a convex 50-gon
2. Find the sum of the measures of the interior angles of a convex hexagon
3. Find the sum of the measures of the interior angles of a convex 30-gon
4. Find the sum of the measures of the exterior angles of a convex 21-gon
5. Find the sum of the measures of the exterior angles of a convex nonagon
6. If the measure of each interior angle of a regular polygon is 108, find the measure of each exterior angle

List the properties of each quadrilateral

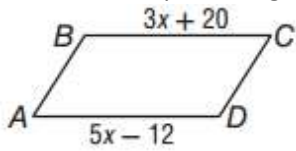
7. Parallelogram
8. Rectangle
9. Rhombus
10. Square
11. Kite
12. Trapezoid
13. Isosceles Trapezoid

Find the value of x

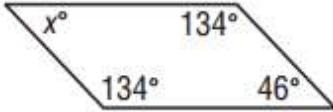


Find the value of x

16. ABCD is a parallelogram



18. This quadrilateral is a parallelogram

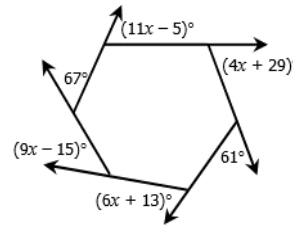


20. ABCD is a rectangle. If $AB = 7x - 6$ and $CD = 5x + 30$, find the value of x.

17. ABCD is a parallelogram with diagonals intersecting at E. If $AE = 4x - 8$ and $EC = 36$, find the value of x.

19. STRQ is a rectangle with diagonals SR and TQ. If $SR = 2x + 10$ and $TQ = 56$, find the value of x.

21.

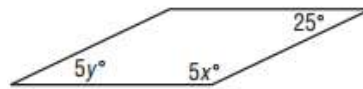


Find the value of the variables so that the quadrilaterals are parallelograms

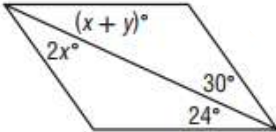
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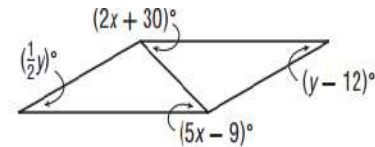
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24.

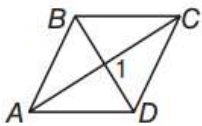


25.

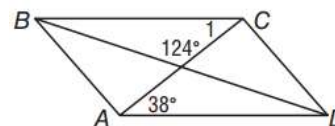


Find the requested segment or angle.

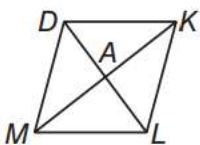
26. For rhombus ABCD find $m\angle 1$



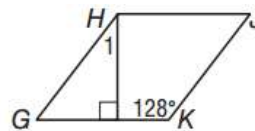
27. For parallelogram ABCD find $m\angle 1$



28. For rhombus GHJK, if $m\angle DML = 82$, find $m\angle DKM$



29. For rhombus GHJK, find $m\angle 1$

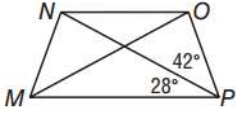


Find the requested segment or angle

30. Quadrilateral HIJK is a square with diagonals that intersect at L. Find the $m\angle HIJ$ and $m\angle JKI$.

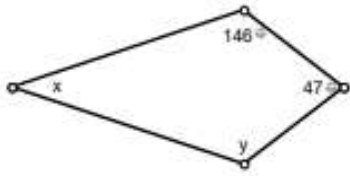
31. The diagonals of square VWXY intersect at Z. If $VZ = 3x - 4$ and $WY = 10x - 48$, find VX.

32. For isosceles trapezoid MNOP, find $m\angle MNP$.



33. The length of one base of a trapezoid is 19 meters and the length of the median is 23 meters. Find the length of the other base.

34. The figure below is a Kite. Find x and y.



35. Find x and y



36. Given $B(1, 3)$, $E(7, -3)$, $F(1, -9)$, $G(-5, -3)$, determine whether parallelogram BEFG is a rhombus, a rectangle or square. Choose the most specific term. Justify your answer.