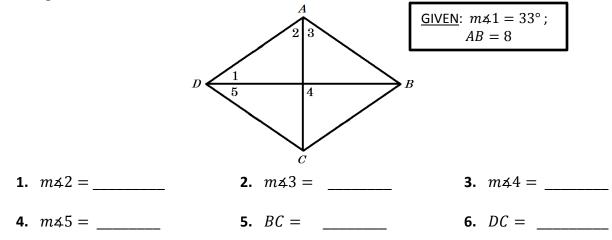
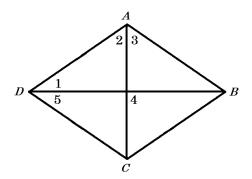
Name	
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_____ Date _____ Period _____

DIRECTIONS: For # 1-6, find the measure of each angle or the length of each segment in the following rhombus.



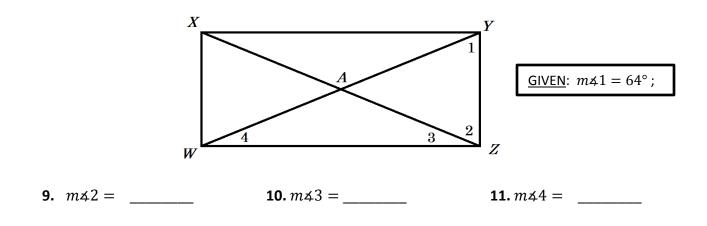
<u>DIRECTIONS:</u> For #7-8, use the following diagram of a rhombus. Show work.



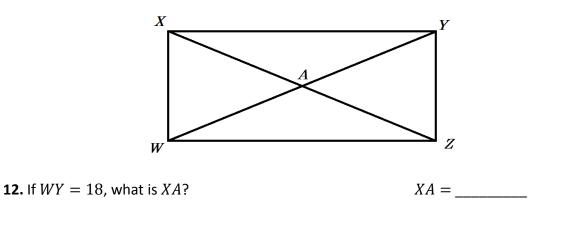
7. If $m \neq 2 = 4x + 2$ and $m \neq 3 = 6x - 22$, what is the value of x? x =_____

8. If $m \neq 1 = 3x + 5$ and $m \neq 2 = 6x + 4$, what is the value of x? x = 1

<u>DIRECTIONS</u>: For # 9-11, find the measure of each angle or the length of each segment in the following rectangle.

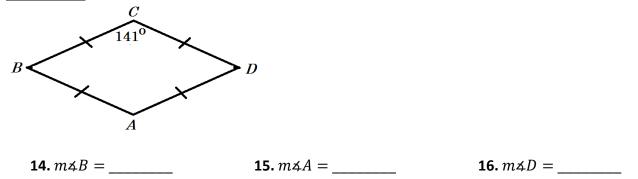


DIRECTIONS: For #12-13, use the following diagram of a rectangle. Show work for #13.

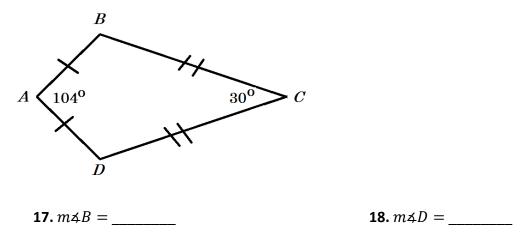


13. If YA = 5n + 11 and XZ = 82, what is n? n =_____

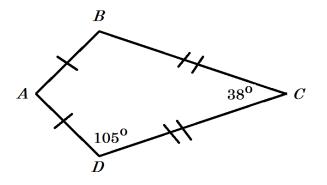
<u>DIRECTIONS</u>: For # 14-16, use the diagram of the rhombus to find the angle measures.



<u>DIRECTIONS</u>: For # 17-18, use the diagram of the kite to find the angle measures.



DIRECTIONS: For # 19-20, use the diagram of the kite to find the angle measures.



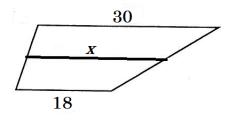
19. *m*∡*A* = _____

20. *m*∡*B* = _____

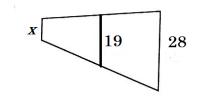
DIRECTIONS: For #21, find the measures of the angles.

21. One angle of an isosceles trapezoid has a measure of 64°. What are the measures of the other three angles?

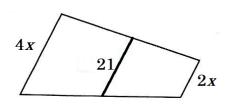
<u>DIRECTIONS</u>: For #22-25, each diagram shows a trapezoid and its midsegment. Solve for *x*.

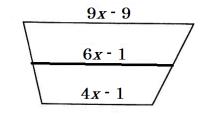


22. *x* = _____

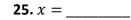








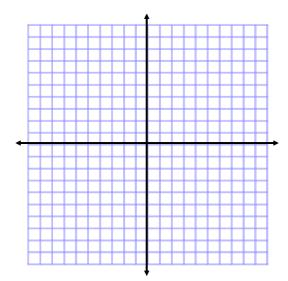
24. *x* = _____



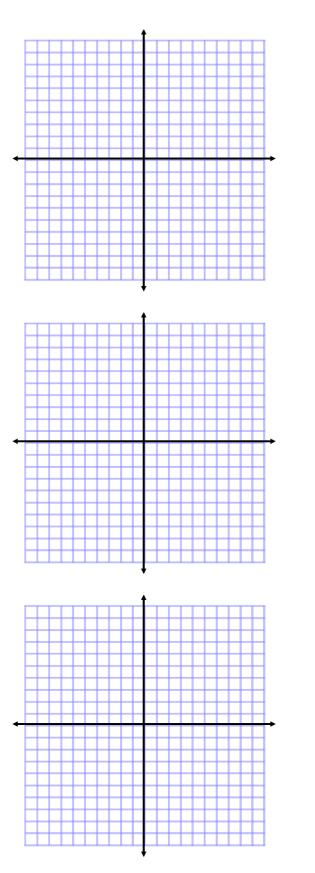
<u>DIRECTIONS</u>: For #26-32, fill in the blanks with the most accurate response – ALWAYS, SOMETIMES, or NEVER (write out the entire word).

26. The midsegment of a trapezoid is ______ parallel to both bases.
27. The diagonals of a trapezoid ______ bisect each other.
28. The diagonals of a rectangle are ______ congruent.
29. The diagonals of a trapezoid are ______ congruent.
30. A rectangle is ______ a square.
31. A square is ______ a rectangle.
32. A square is _______ a rhombus.

<u>DIRECTIONS</u>: For #33-38, find the fourth point to create the desired shapes. Use the graphs to help you find the answers. List the coordinates as an ordered pair.



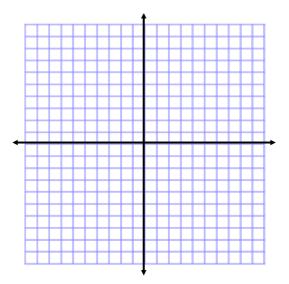
33. Three points of a **parallelogram** are (4, 5), (-1, 5), and (1, 1). What is a possible fourth point?



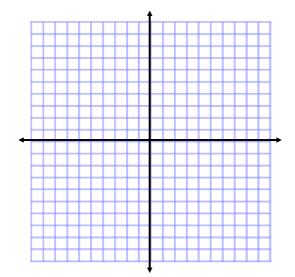
34. Three points of a **rectangle** are (-5, 4), (-5, -2), and (3, 4). What is a possible fourth point?

35. Three points of a **square** are (-2, 3), (-2, 6), and (-5, 3). What is a possible fourth point?

36. Three points of a **rhombus** are (-1, 0), (4, 3), and (9, 0). What is a possible fourth point?



37. Three points of an **isosceles trapezoid** are (1, 8), (5, 3), and (5, 6). What is a possible fourth point?



38. Three points of a **kite** are (4, 3), (6, 1), and (8, 3). What is a possible fourth point?

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