## GEOMETRY CHAPTER 6 REVIEW

Properties of Quadrilaterals

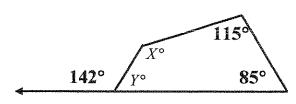
<ol> <li>Tell whether each sta</li> </ol>	tement is sometim	es. always.	or never true
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- a. A square is a rectangle.
- b. A parallelogram is a rectangle.
- c. A rectangle is a square.
- d. A rhombus is a rectangle.
- e. A rectangle is a parallelogram
- f. A rhombus is a square
- g. A parallelogram is a rhombus
- h. A square is a rhombus
- i. A rectangle is a quadrilateral

## 2. Which statement(s) is/are **NOT** true of a parallelogram?

- a. Diagonals of a parallelogram are congruent.
- b. Opposite angles of a parallelogram are congruent.
- Opposite sides of a parallelogram are both parallel and congruent.
- d. Consecutive angles of a parallelogram are always supplementary.
- e. Diagonals bisect and intersect to form right angles.
- f. Diagonals are congruent.

<b>3</b> .	Given:	Quadrilateral	with an ex	kterior angl	e measure	of '	142°
	Find:	X==	y=_				

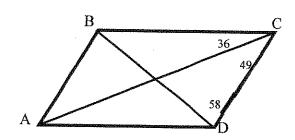


4. Given: Quadrilateral with an exterior angle measure of 123°

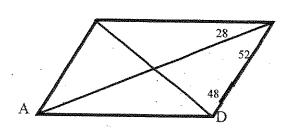
Find: x=\_\_\_\_\_ y=\_\_\_\_

	125%	
123° / <sub>Y°</sub>	720	
<del> </del>		

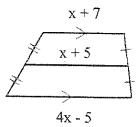
5. Use the Parallelogram to the right determine the m∠ABC.



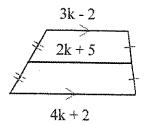
6. Use the Parallelogram to the right determine the m∠ABC.



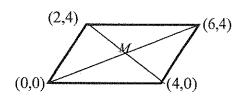
7. Find the length of the following trapezoid's midsegment.



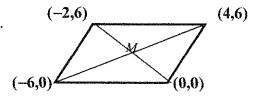
8. Find the length of the following trapezoid's midsegment.



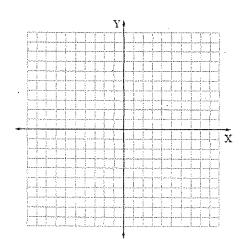
9. Given the parallelogram, find the coordinates for point M.



10. Given the parallelogram, find the coordinates for point M.

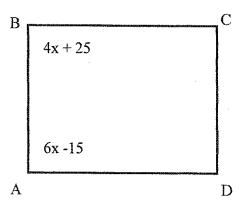


11. What point could be the coordinates of the fourth vertex of parallelogram ABCD with A(1,3), B(8,5), and D(-1,-1)?



12. If the interior angles sum of a regular polygon is equal to 1260<sup>0</sup> name the polygon. You must show work to receive credit.

13. Given the parallelogram ABCD, what is the measure of ∠ADC?



14. Considering the angles, sides and diagonals of each, compare and contrast a parallelogram and a rectangle.

15. Considering the angles, sides and diagonals of each, compare and contrast a Rhombus and a trapezoid.