Name:		Period:					
Date:	Quadrilat	erals Re	view Wo	orkshe	et		
Part 1: Quad Prop	_					the prope	rty.
Property	Parallelogram	Rectangle	Rhombus	Square	Trapezoid	Isosceles Trapezoid	Kite
1. Both pairs of opp. sides are ≅						-	
2. Diagonals are ≅							
3. Diagonals are perpendicular4. Diagonals bisect each other							
5. Consecutive angles are supplementary							
6. Both pairs of opposite ∠'s are ≅							
7. Both pairs of opposiab8. Both pairs of opposi	te sides are co						
a			С				
b			d				
9. Both pairs of opposi	te angles are o	congruent.					
a			С				
b			d				
10. Exactly one pair of	opposite side	s is paralle					
a			b				
11. Exactly one pair of a		_	ruent.				

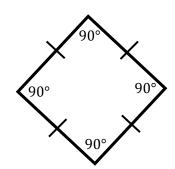
Part 3: Identify Quad

13. List all the quadrilaterals that have the given property.

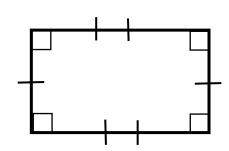
a.



b.



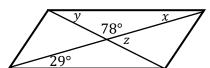
C.



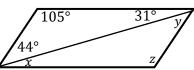
Part 4: Parallelograms

14. If the following quadrilaterals are parallelograms, find the values of x, y, and z.

a.

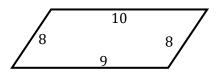


b.

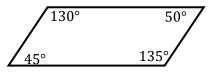


15. Explain why it is impossible for each figure to be a parallelogram.

a.



b.

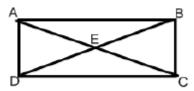


16. Hi!∜©

Part 5: Rectangles

Use rectangle ABCD and the given information to complete the following.

17. If AC = 4x - 60 and BD = 30 - x, find BD.



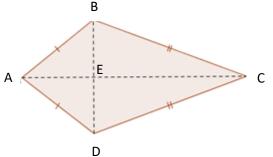
18. If $\angle BAC = 4x + 5$ and $\angle CAD = 5x - 14$, find $\angle CAD$.

19. If DE = 13, find CE.

Part 6: Kite

Use kite ABCD and the given information to complete the following.

20. If
$$AB = x + 3$$
, $BC = x + 4$, $CD = 2x - 1$, and $AD = 3x - y$, solve for x and y .

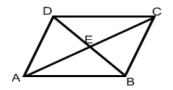


21. If $\angle AEB = 5x - 10$ and DE = 6x, find DB.

Part 7: Rhombus

Use rhombus ABCD and the given information to complete the following.

22. If
$$\angle ADB = 27$$
, find $\angle ADC$.



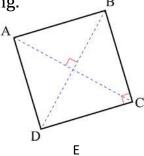
23. If $\angle DEC = 5x$, find the value of x.

24. If DE = 13, find DB.

Part 8: Squares

Use square ABCD and the given information to complete the following.

25. If
$$BC = 3x + 14$$
 and $DC = 5x - 8$, find the value of x .



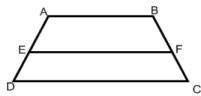
26. If $\angle AEB = 3x$, find the value of x.

27. If $\angle BAC = 5x$, find the value of x.

Part 9: Trapezoid

ABCD is an isosceles trapezoid with bases AB and CD, and median EF. Use the given information to solve each problem.

28. If
$$DC = 30$$
 and $AB = 42$, find EF .



29. If $\angle A = 5x$ and $\angle D = 4x$, find the value of x.

30. If
$$EF = x + 5$$
 and $AB + CD = 4x + 6$, find EF .

Part 10: Coordinate Geometry

31. Determine what kind of quadrilateral PQRS is based on the following vertices. Justify your answer. P(2,3), Q(5,9), R(11,6), S(8,0)

