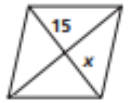
Quadrilaterals Review

Name:_____

Find the value of x in each parallelogram.

1. 

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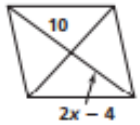
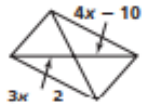
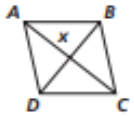
3. 

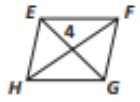
4. 

5. $AC = 24$

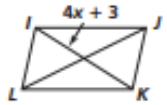


6. 

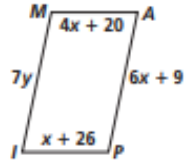
7. $x = EG$

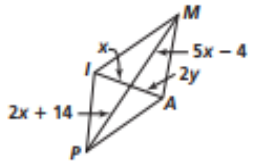


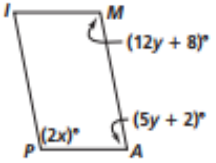
8. $IK = 35$



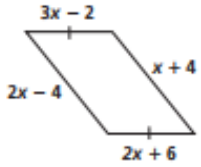
Algebra **Find the values of x and y for which the figure must be a parallelogram.**

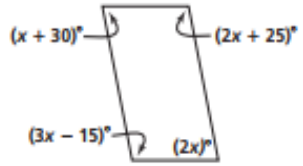
7. 

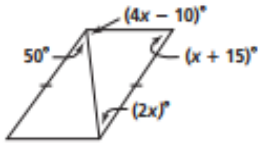
8. 

9. 

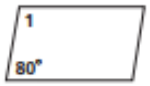
Algebra **Find the value of x. Then tell whether the figure must be a parallelogram. Explain your answer.**

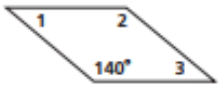
10. 

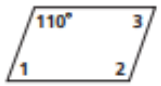
11. 

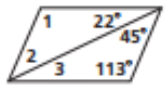
12. 

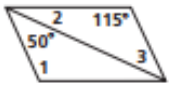
Find the measures of the numbered angles for each parallelogram.

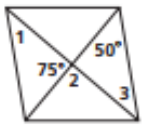
13. 

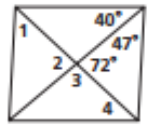
14. 

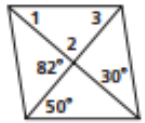
15. 

16. 

17. 

18. 

19. 

20. 

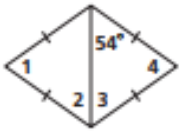
Name ALL the properties that are unique to each of the following Quadrilaterals...
(Which properties do each of the following have that the others do not have)

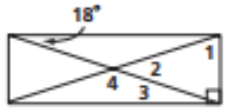
A) Parallelogram

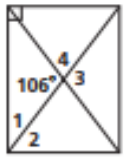
B) Isosceles Trapezoids

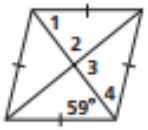
C) Kites

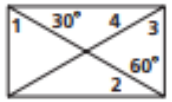
For each parallelogram, (a) choose the best name, and then (b) find the measures of the numbered angles.

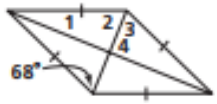
1. 

2. 

3. 

4. 

5. 

6. 

***HIJK* is a rectangle. Find the value of x and the length of each diagonal.**

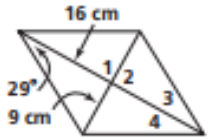
10. $HJ = x$ and $IK = 2x - 7$

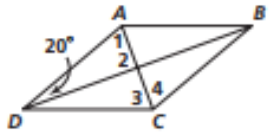
11. $HJ = 3x + 5$ and $IK = 5x - 9$

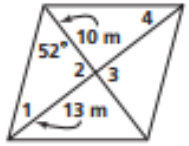
12. $HJ = 3x + 7$ and $IK = 6x - 11$

13. $HJ = 19 + 2x$ and $IK = 3x + 22$

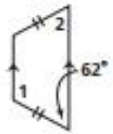
For each rhombus, (a) find the measures of the numbered angles, and then (b) find the area.

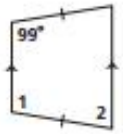
14. 

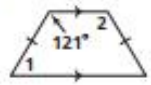
15. $AC = 8$ in.
$BD = 22$ in.


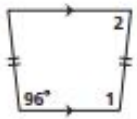
16. 

Find the measures of the numbered angles in each isosceles trapezoid.

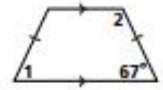
1. 

2. 

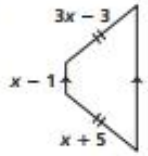
3. 

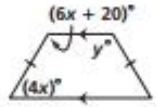
4. 

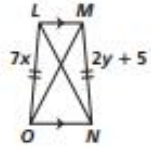
5. 

6. 

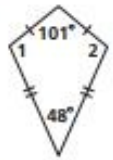
***Algebra* Find the value(s) of the variable(s) in each isosceles trapezoid.**

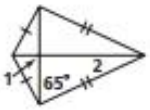
7. 

8. 

9. 

Find the measures of the numbered angles in each kite.

10. 

11. 

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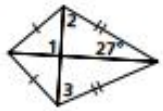
13. 

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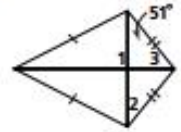
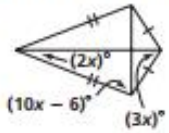
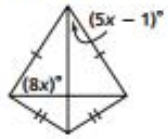
15. 

***Algebra* Find the value(s) of the variable(s) in each kite.**

16. 

17. 

18.