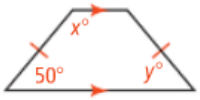
Parallelogram Proof Practice Name: _____

Algebra Find the values of the variables for each quadrilateral.

6.



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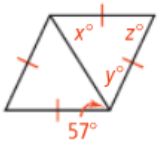

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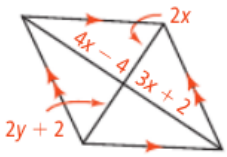

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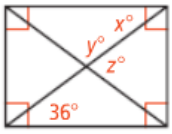

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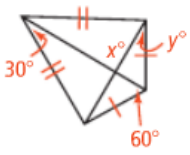

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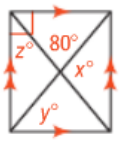
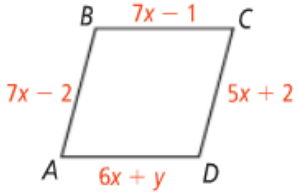


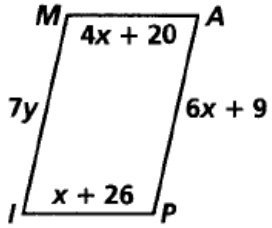
12.

Algebra Determine the values of the variables for which *ABCD* is a parallelogram.



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

7.



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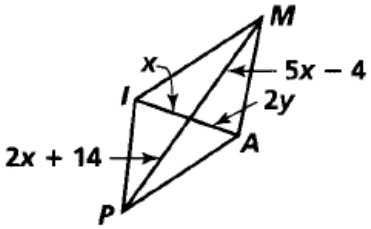

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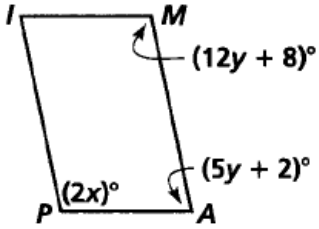
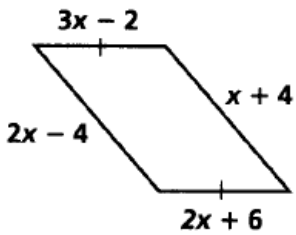


Algebra **Find the value of *x*. Then tell whether the figure must be a parallelogram. Explain your answer.**

10.



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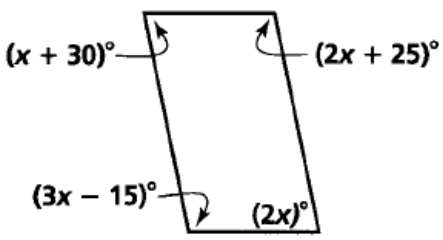

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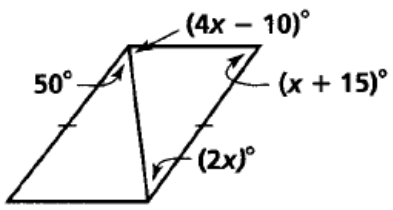
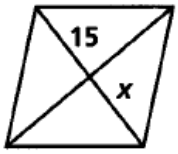
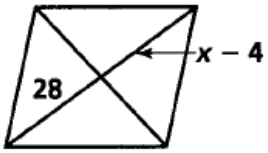
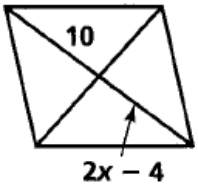
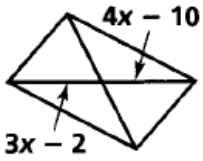


Find the value of x in each parallelogram.

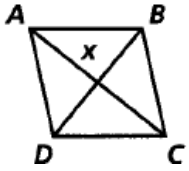
1. 

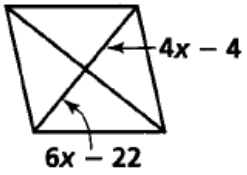
2. 

3. 

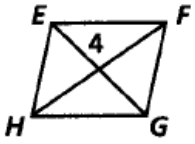
4. 

5. $AC = 24$

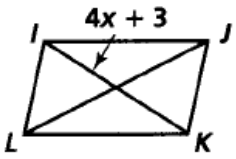


6. 

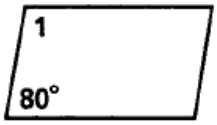
7. $x = EG$

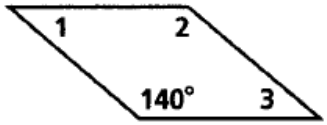


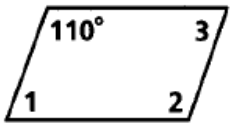
8. $IK = 35$

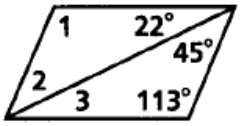


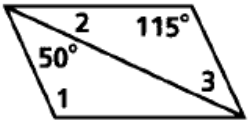
Find the measures of the numbered angles for each parallelogram.

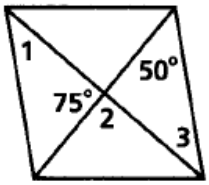
13. 

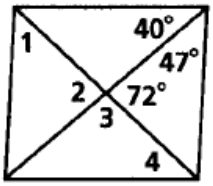
14. 

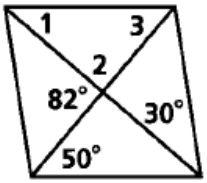
15. 

16. 

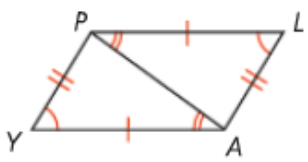
17. 

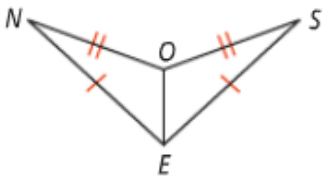
18. 

19. 

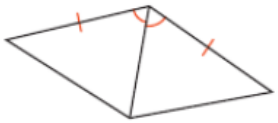
20. 

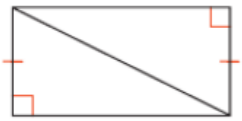
Write a congruence statement for each pair of triangles.

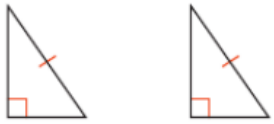
1. 

2. 

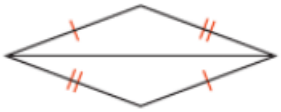
Which postulate or theorem, if any, could you use to prove the two triangles congruent? If not enough information is given, write *not enough information*.

3. 

4. 

5. 

5. 

6. 

7.