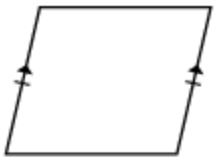
Name _____ Date _____

Determine if the quadrilateral is a parallelogram. If it is, what rule was used to determine that it is a parallelogram?

1.



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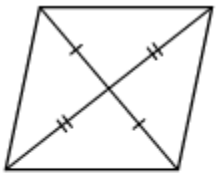

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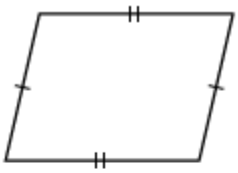

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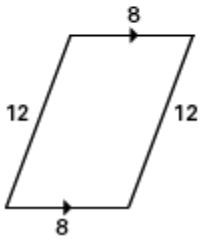

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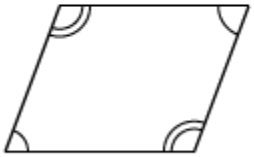

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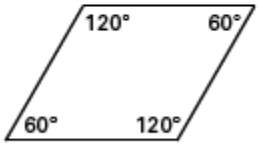
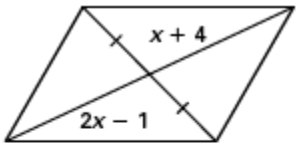


Find the value of x that makes the figure a parallelogram.

7.



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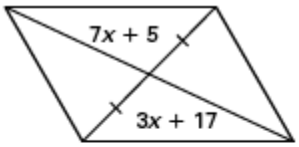
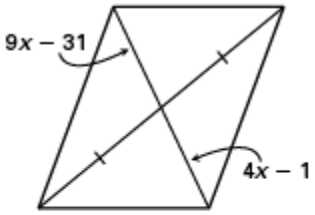


9.



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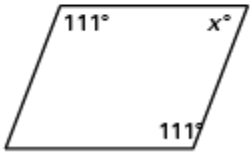

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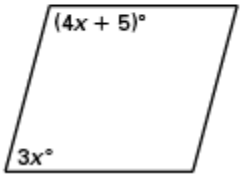

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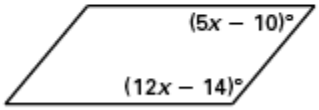
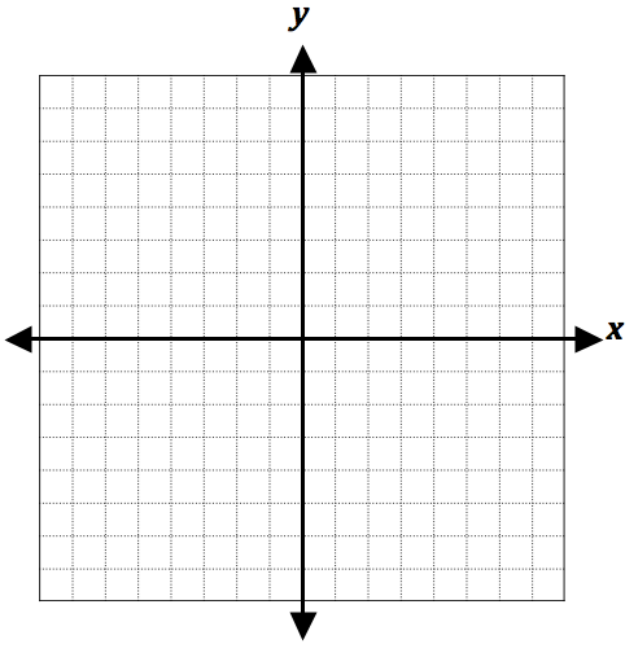
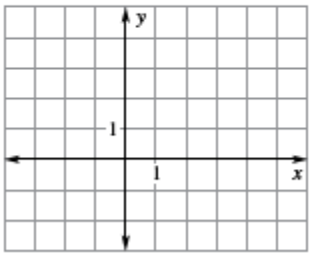


Determine whether a figure with the given vertices is a parallelogram. Use the method indicated.

METHOD ONE: use distance and slope formula Show that one pair of sides are both congruent & parallel.	Graph the points: A(-3,3), B(2,5), C(5,2), D(0,0) 
METHOD TWO: use distance formula Show that both pairs of opposite sides are congruent.	
METHOD THREE: use slope formula Show that both airs of opposite sides are parallel.	

The vertices of quadrilateral *ABCD* are given. Draw *ABCD* in a coordinate plane and show that it is a parallelogram.

13. $A(-1, 3), B(4, 3), C(2, -1), D(-3, -1)$



14. $A(-2, 3), B(3, 2), C(3, -1), D(-2, 0)$