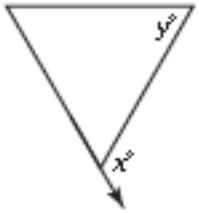
Name_____ Class_____ Date_____

Practice 3-5

The Polygon Angle-Sum Theorems

Find the values of the variables for each polygon. Each is a regular polygon.

1.



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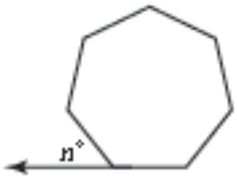
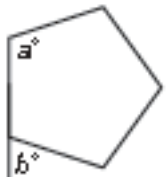
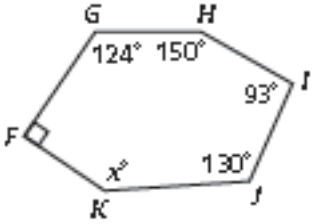




Find the missing angle measures.

5.



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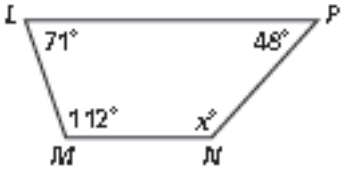
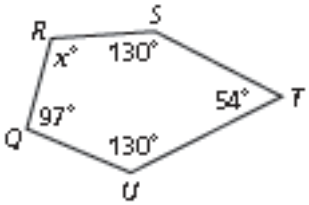


7.



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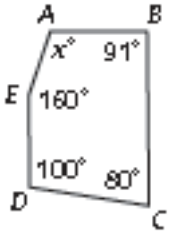

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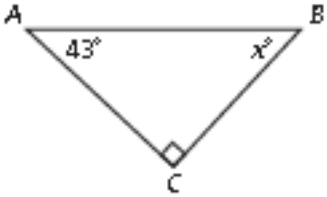
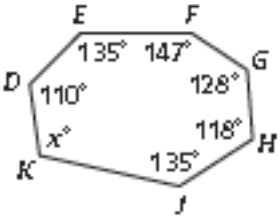


9.



For a regular 12-sided polygon, find each of the following.

10. the measure of an exterior angle

11. the measure of an interior angle

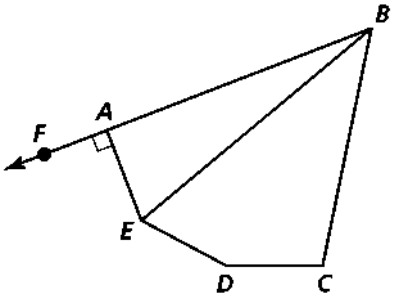
The measure of an interior angle of a regular polygon is given. Find the number of sides.

12. 120

13. 108

14. 135

Identify each item in Exercises 15–18 in the figure.



15. quadrilateral

16. exterior angle

17. pair of supplementary angles

18. pentagon

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19. A regular polygon has an exterior angle of measure 18. How many sides does the polygon have?