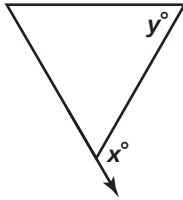


# Practice 3-5

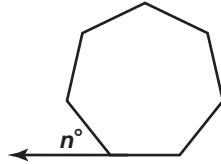
## The Polygon Angle-Sum Theorems

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

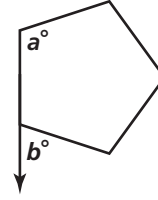
1.  $x =$  \_\_\_\_\_,  $y =$  \_\_\_\_\_



2.  $n =$  \_\_\_\_\_

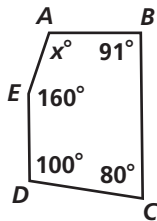


3.  $a =$  \_\_\_\_\_,  $b =$  \_\_\_\_\_

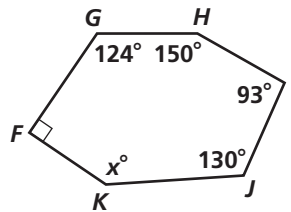


Find the missing angle measures.

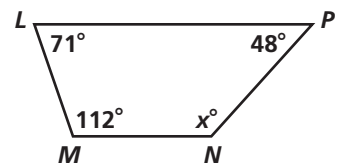
4. \_\_\_\_\_



5. \_\_\_\_\_



6. \_\_\_\_\_



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

7. the measure of an exterior angle \_\_\_\_\_

8. the measure of an interior angle \_\_\_\_\_

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

9. 120 \_\_\_\_\_

10. 108 \_\_\_\_\_

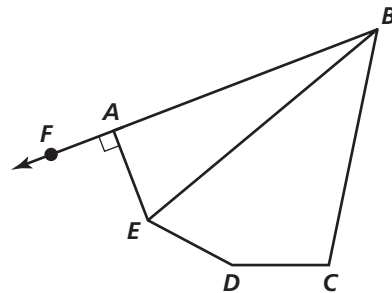
Identify each item in Exercises 11–14 in the figure.

11. quadrilateral \_\_\_\_\_

12. exterior angle \_\_\_\_\_

13. pair of supplementary angles \_\_\_\_\_

14. pentagon \_\_\_\_\_



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