

6-1

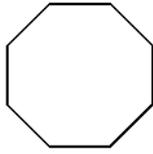
Practice

Form G

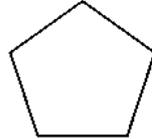
The Polygon Angle-Sum Theorems

Find the sum of the angle measures of each polygon.

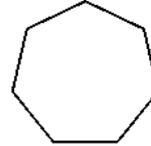
1.



2.



3.



4. 12-gon

5. 18-gon

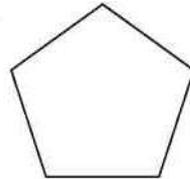
8. 102-gon

Find the measure of one angle in each regular polygon. Round to the nearest tenth if necessary.

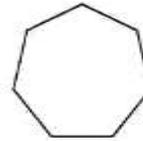
13.



14.



15.



16. regular 15-gon

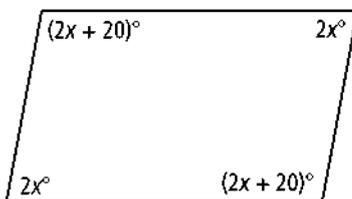
18. regular 13-gon

19. regular 24-gon

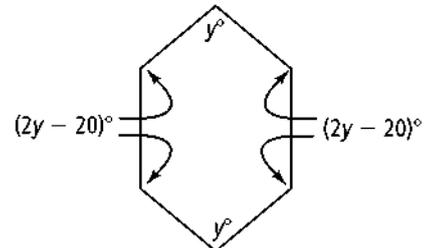
20. regular 360-gon

Algebra Find the missing angle measures.

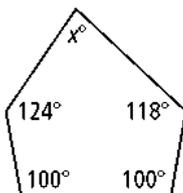
25.



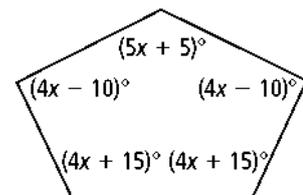
26.



27.



29.



6-1

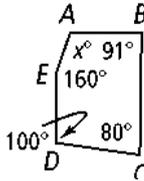
Practice (continued)

Form G

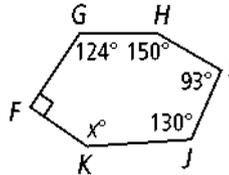
The Polygon Angle-Sum Theorems

Algebra Find the missing angle measures.

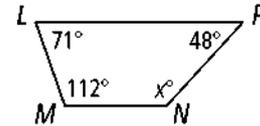
30.



31.



32.



Find the measure of an exterior angle of each regular polygon. Round to the nearest tenth if necessary.

36. decagon

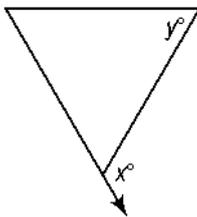
37. 16-gon

38. hexagon

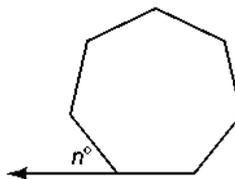
39. 20-gon

Find the values of the variables for each regular polygon. Round to the nearest tenth if necessary.

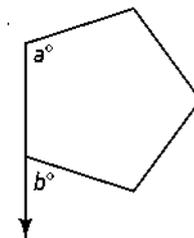
45.



46.



47.



48. Reasoning Can a quadrilateral have no obtuse angles? Explain.

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

49. 12

50. 6

52. 40

53. 24