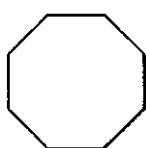
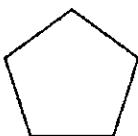


6-1**Practice****Form G****The Polygon Angle-Sum Theorems****7 points****B6****Find the sum of the angle measures of each polygon.**

1.



2.



3.



4. 12-gon

5. 18-gon

6. 25-gon

7. 60-gon

8. 102-gon

9. 17-gon

10. 36-gon

11. 90-gon

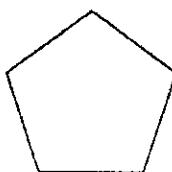
12. 11-gon

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

13.



14.



15.



16. regular 15-gon

17. regular 11-gon

18. regular 13-gon

19. regular 24-gon

20. regular 360-gon

21. regular 18-gon

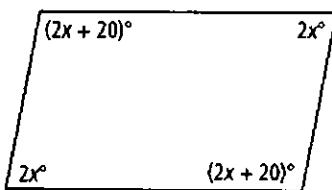
22. regular 36-gon

23. regular 72-gon

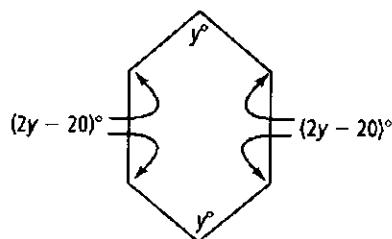
24. regular 144-gon

Algebra Find the missing angle measures.

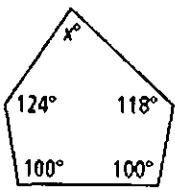
25.



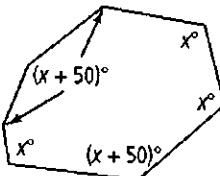
26.



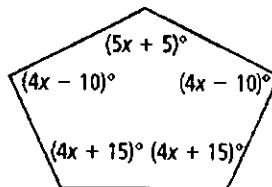
27.



28.



29.

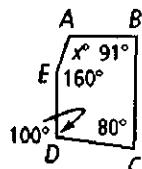


6-1**Practice (continued)**

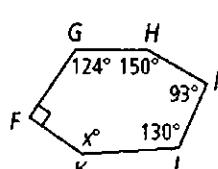
Form G

7 points
BG**The Polygon Angle-Sum Theorems****Algebra** Find the missing angle measures.

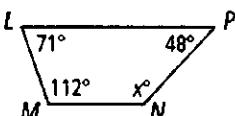
30.



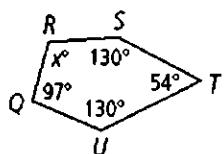
31.



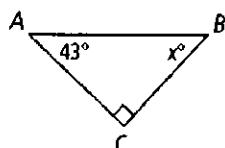
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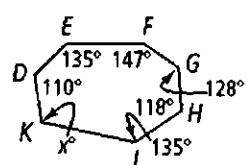
33.



34.



35.

**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

40. 72-gon

41. square

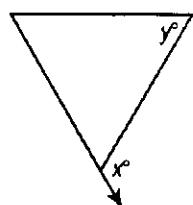
42. 15-gon

43. 25-gon

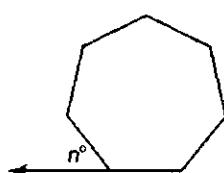
44. 80-gon

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

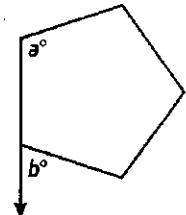
45.



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

51. 45

52. 40

53. 24

54. 18

55. 9

56. 14.4

57. 7.2