

6-1

Practice

Form G

The Polygon Angle-Sum Theorems

Find the sum of the angle measures of each polygon.

1.



1080

2.



540

3.



900

4. 12-gon 1800

5. 18-gon 2880

6. 25-gon 4140

7. 60-gon 10,440

8. 102-gon 18,000

9. 17-gon 2700

10. 36-gon 6120

11. 90-gon 15,840

12. 11-gon 1620

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

13.



135

14.



108

15.



128.6

16. regular 15-gon 156

17. regular 11-gon 147.3

18. regular 13-gon 152.3

19. regular 24-gon 165

20. regular 360-gon 179

21. regular 18-gon 160

22. regular 36-gon 170

23. regular 72-gon 175

24. regular 144-gon 177.5

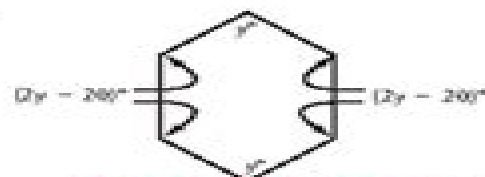
Algebra Find the missing angle measures.

25.



80; 100; 80; 100

26.



80; 140; 140; 80; 140; 140

27.



98

28.



100; 100; 150; 100; 150; 150; 150

29.



90; 115; 115; 90; 130

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