

Unit 7.4 Angle Measures in Polygons PRACTICE

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

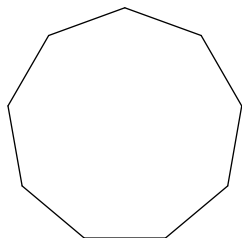
1) regular 23-gon

 164.3°

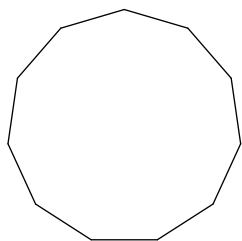
3) regular 19-gon

 161.1°

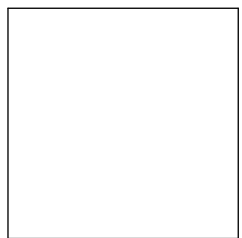
5)

 140°

7)

 147.3°

9)

 90°

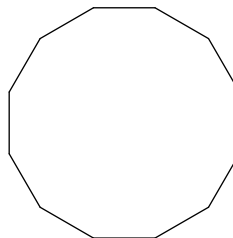
2) regular 11-gon

 147.3°

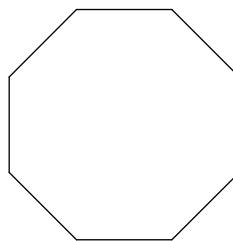
4) regular 20-gon

 162°

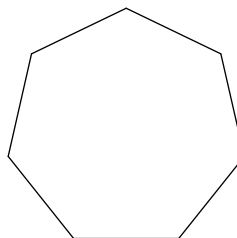
6)

 150°

8)

 135°

10)

 128.6°

Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

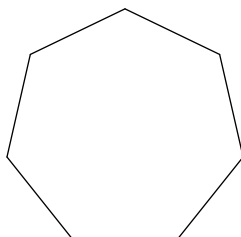
11) regular dodecagon

 1800°

13) regular hexagon

 720°

15)

 900°

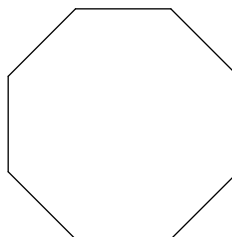
12) regular 20-gon

 3240°

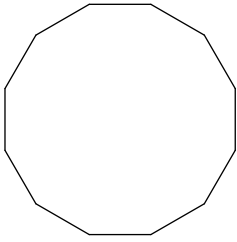
14) regular 22-gon

 3600°

16)

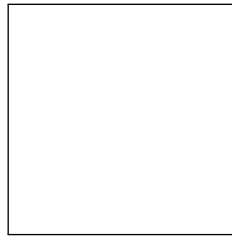
 1080°

17)



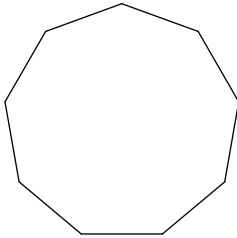
1800°

18)



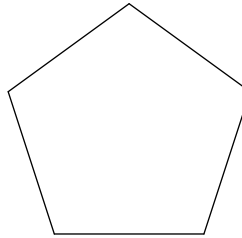
360°

19)



1260°

20)



540°

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

21) regular 11-gon

32.7°

22) regular 15-gon

24°

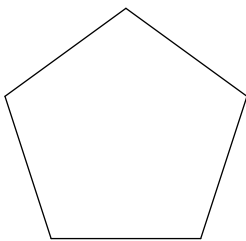
23) regular 20-gon

18°

24) regular 13-gon

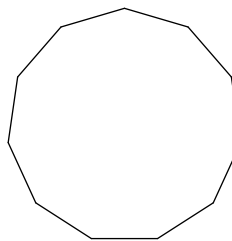
27.7°

25)



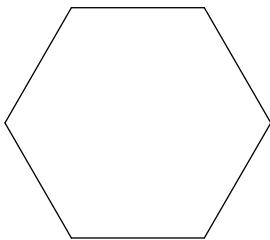
72°

26)



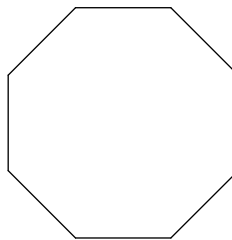
32.7°

27)



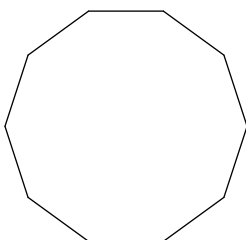
60°

28)



45°

29)



36°

30)



90°