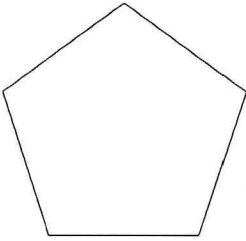


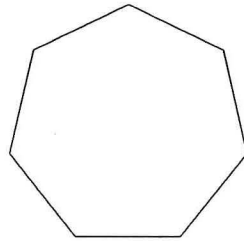
## 9-6 Angles of Regular Polygons (ver1)\_hw

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

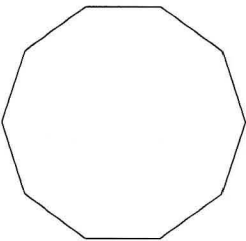
1)



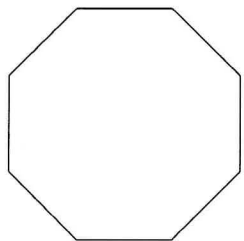
2)



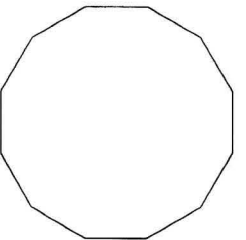
3)



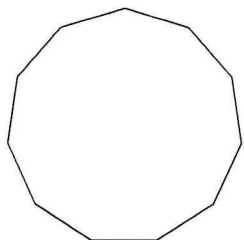
4)



5)



6)



7) regular 25-gon

8) regular nonagon

9) regular 22-gon

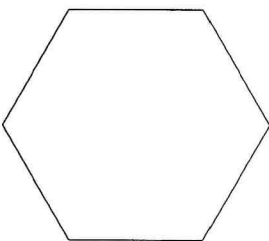
10) regular heptagon

11) regular 19-gon

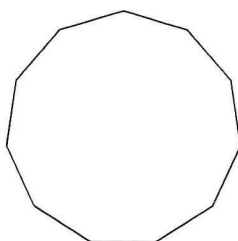
12) regular decagon

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

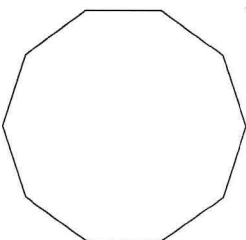
13)



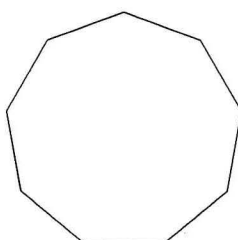
14)

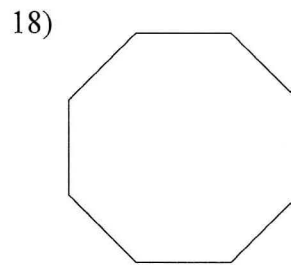
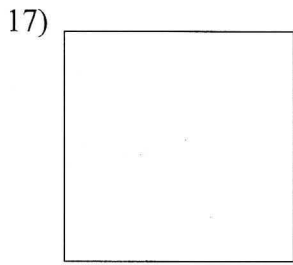


15)



16)





19) regular octagon

20) regular 19-gon

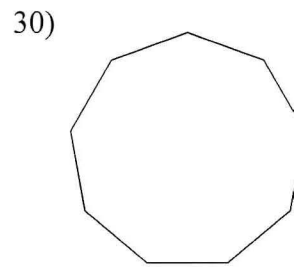
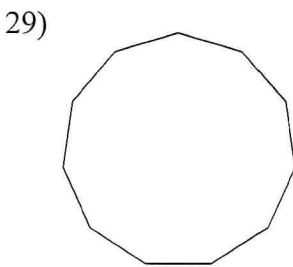
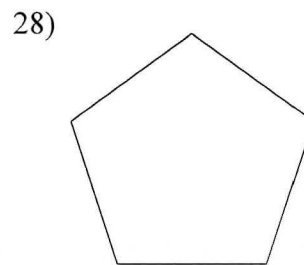
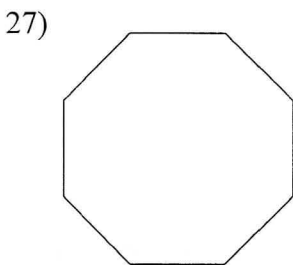
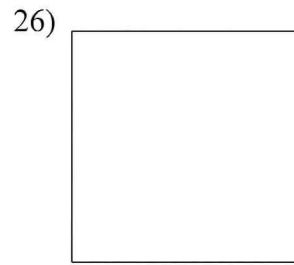
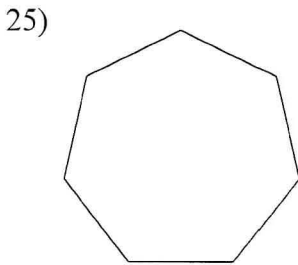
21) regular pentagon

22) regular 24-gon

23) regular 17-gon

24) regular 21-gon

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



31) regular 16-gon

32) regular 13-gon

33) regular heptagon

34) regular 19-gon

35) regular 22-gon

36) regular nonagon

- Answers to 9-6 Angles of Regular Polygons (ver1)\_hw
- 1) 540°
  - 2) 900°
  - 3) 1440°
  - 4) 1080°
  - 5) 1800°
  - 6) 1620°
  - 7) 4140°
  - 8) 1260°
  - 9) 3600°
  - 10) 900°
  - 11) 3060°
  - 12) 1440°
  - 13) 120°
  - 14) 147.3°
  - 15) 144°
  - 16) 140°
  - 17) 90°
  - 18) 135°
  - 19) 135°
  - 20) 161.1°
  - 21) 108°
  - 22) 165°
  - 23) 158.8°
  - 24) 162.9°
  - 25) 51.4°
  - 26) 90°
  - 27) 45°
  - 28) 72°
  - 29) 32.7°
  - 30) 40°
  - 31) 22.5°
  - 32) 27.7°
  - 33) 51.4°
  - 34) 18.9°
  - 35) 16.4°
  - 36) 40°