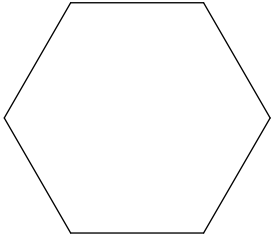


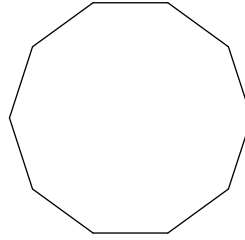
Chapter 10: Polygons and Area

Write the name of each polygon.

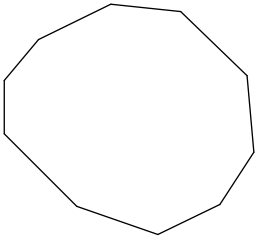
1)



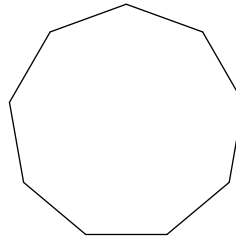
2)



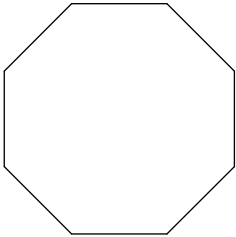
3)



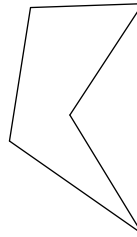
4)



5)

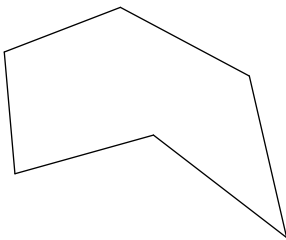


6)

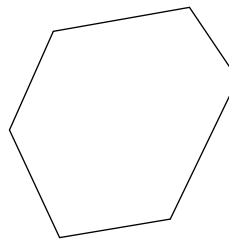


State if each polygon is concave or convex.

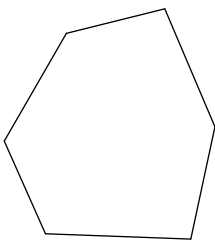
7)



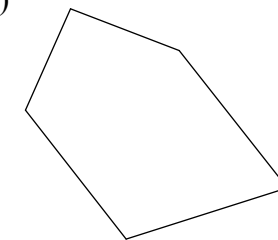
8)



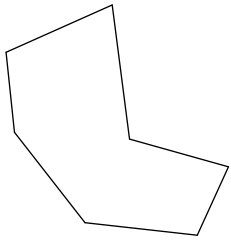
9)



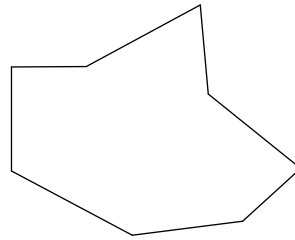
10)



11)

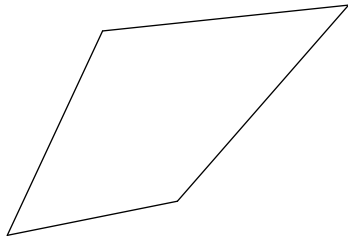


12)

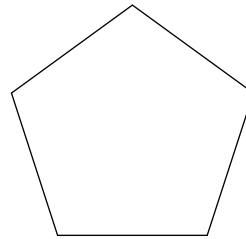


**State if each polygon is regular or not.**

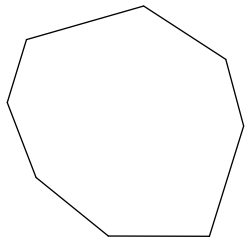
13)



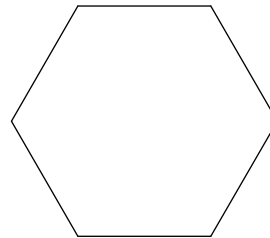
14)



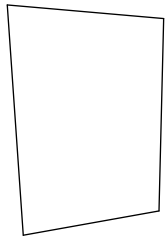
15)



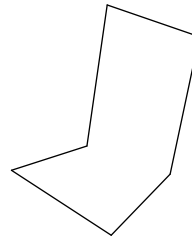
16)



17)

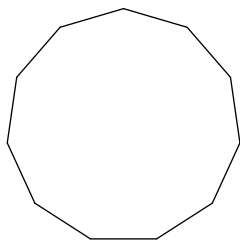


18)

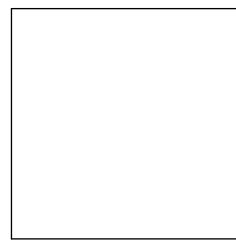


**Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.**

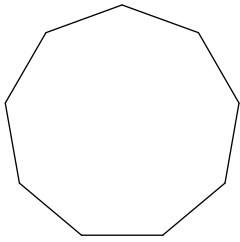
19)



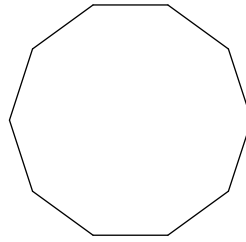
20)



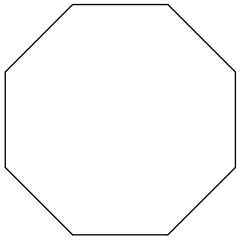
21)



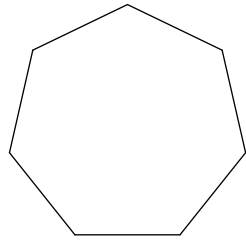
22)



23)

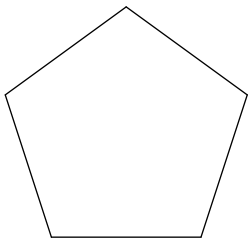


24)

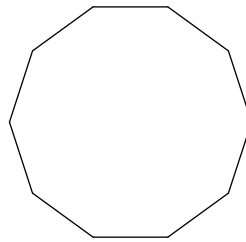


**Find the measure of one interior angle in each regular polygon. Round your answer to the nearest tenth if necessary.**

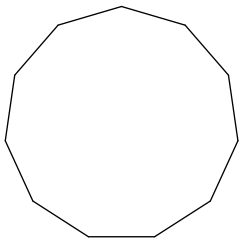
25)



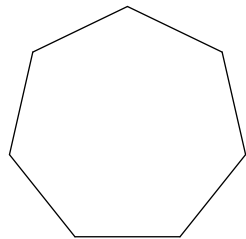
26)



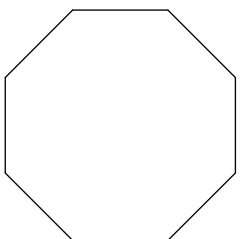
27)



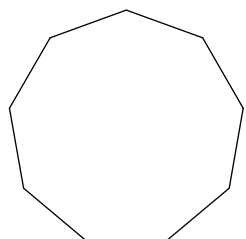
28)



29)

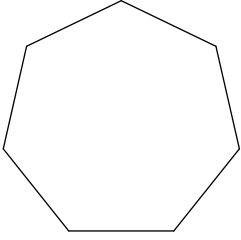


30)

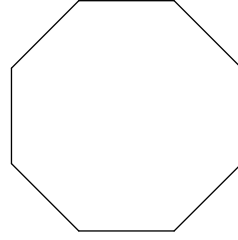


**Find the measure of one exterior angle in each regular polygon. Round your answer to the nearest tenth if necessary.**

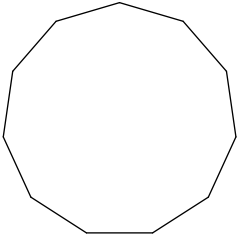
31)



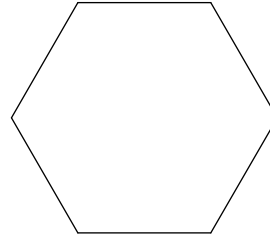
32)



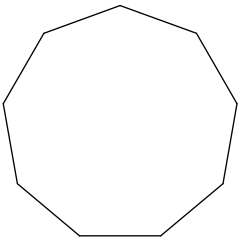
33)



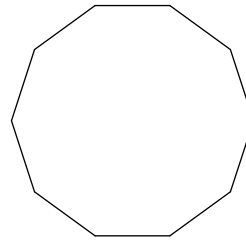
34)



35)

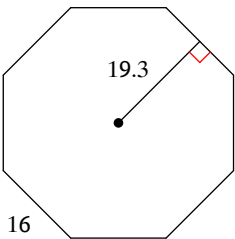


36)

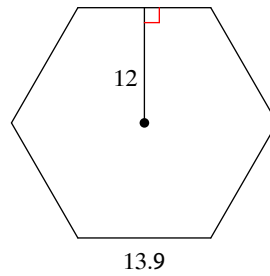


**Find the area of each regular polygon. Round your answer to the nearest tenth if necessary.**

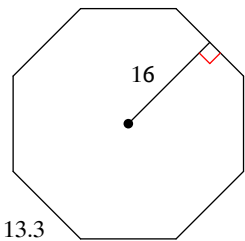
37)



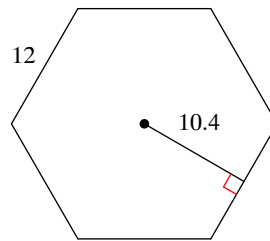
38)



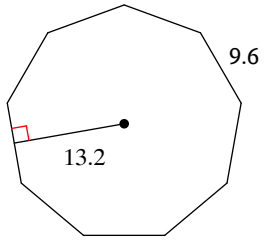
39)



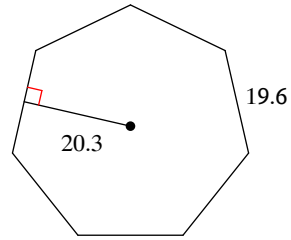
40)



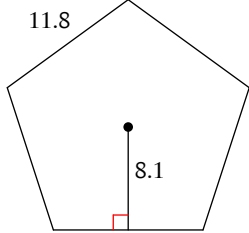
41)



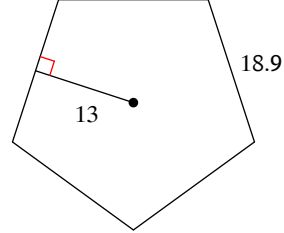
42)



43)

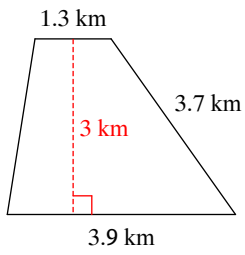


44)

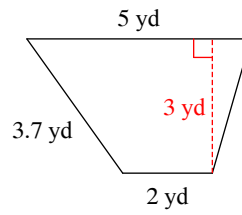


**Find the area of each.**

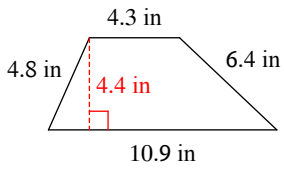
45)



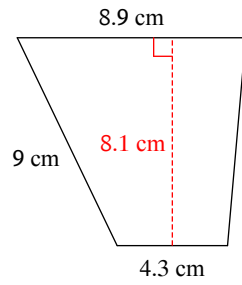
46)



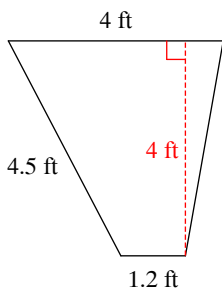
47)



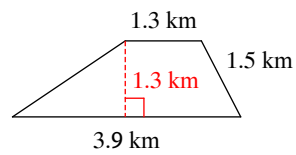
48)



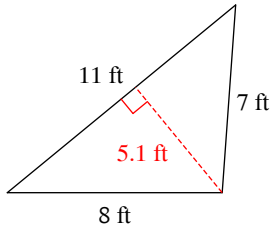
49)



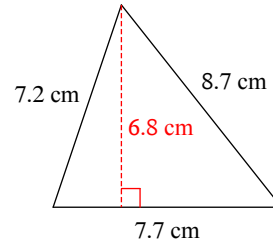
50)



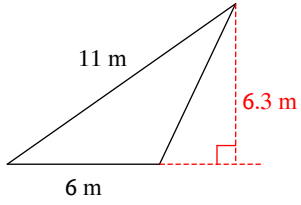
51)



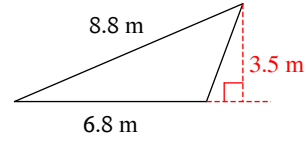
52)



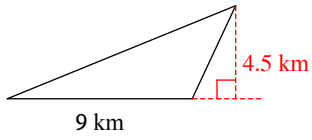
53)



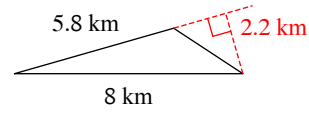
54)



55)



56)



## Answers to Chapter 10: Polygons and Area (ID: 2)

- |                         |                         |                          |                          |
|-------------------------|-------------------------|--------------------------|--------------------------|
| 1) hexagon              | 2) decagon              | 3) decagon               | 4) nonagon               |
| 5) octagon              | 6) pentagon             | 7) concave               | 8) convex                |
| 9) convex               | 10) convex              | 11) concave              | 12) concave              |
| 13) not regular         | 14) regular             | 15) not regular          | 16) regular              |
| 17) not regular         | 18) not regular         | 19) $1620^\circ$         | 20) $360^\circ$          |
| 21) $1260^\circ$        | 22) $1440^\circ$        | 23) $1080^\circ$         | 24) $900^\circ$          |
| 25) $108^\circ$         | 26) $144^\circ$         | 27) $147.3^\circ$        | 28) $128.6^\circ$        |
| 29) $135^\circ$         | 30) $140^\circ$         | 31) $51.4^\circ$         | 32) $45^\circ$           |
| 33) $32.7^\circ$        | 34) $60^\circ$          | 35) $40^\circ$           | 36) $36^\circ$           |
| 37) 1235.2              | 38) 500.4               | 39) 851.2                | 40) 374.4                |
| 41) 570.2               | 42) 1392.6              | 43) 239                  | 44) 614.3                |
| 45) $7.8 \text{ km}^2$  | 46) $10.5 \text{ yd}^2$ | 47) $33.44 \text{ in}^2$ | 48) $53.46 \text{ cm}^2$ |
| 49) $10.4 \text{ ft}^2$ | 50) $3.38 \text{ km}^2$ | 51) $28.05 \text{ ft}^2$ | 52) $26.18 \text{ cm}^2$ |
| 53) $18.9 \text{ m}^2$  | 54) $11.9 \text{ m}^2$  | 55) $20.25 \text{ km}^2$ | 56) $6.38 \text{ km}^2$  |