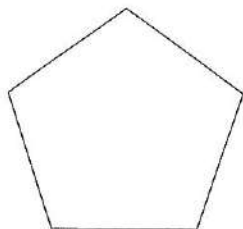


Polygons and Angles

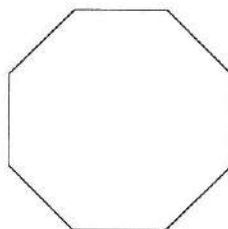
Date _____ Period _____

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

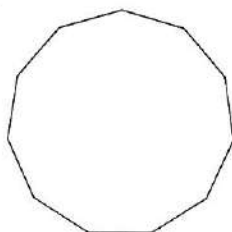
1)



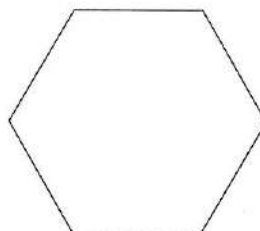
2)



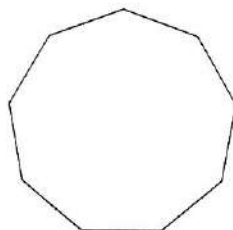
3)



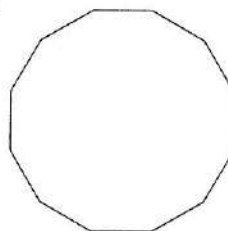
4)



5)



6)



7) regular 24-gon

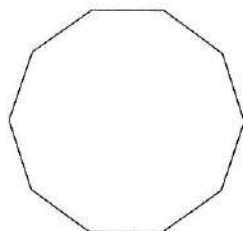
8) regular quadrilateral

9) regular 23-gon

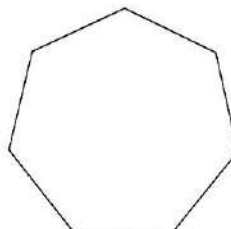
10) regular 16-gon

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

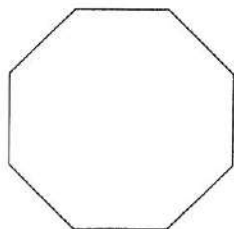
11)



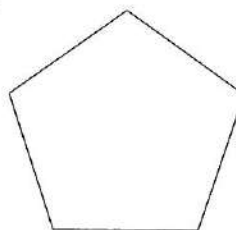
12)



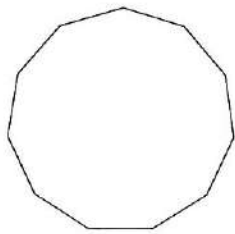
13)



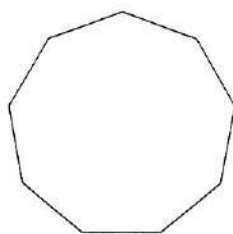
14)



15)



16)



17) regular 13-gon

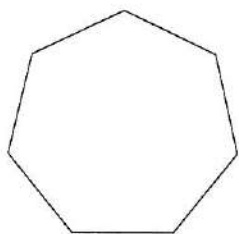
18) regular 16-gon

19) regular 20-gon

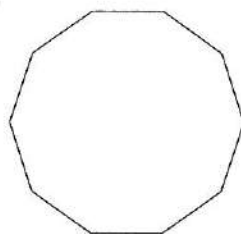
20) regular 23-gon

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

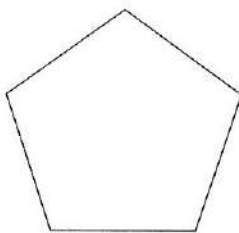
21)



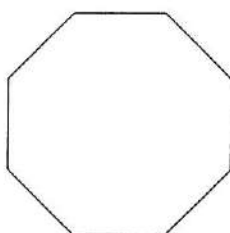
22)



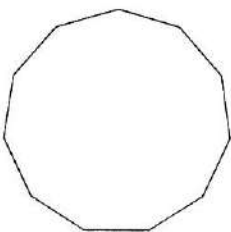
23)



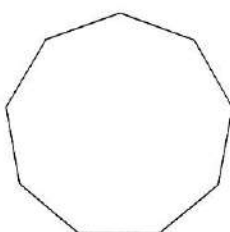
24)



25)



26)



27) regular quadrilateral

28) regular 18-gon

29) regular dodecagon

30) regular 15-gon

Critical thinking questions:

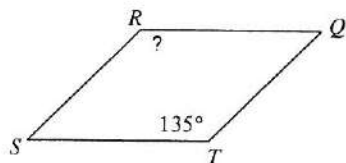
31) What is the exterior angle sum of a 500-gon?

32) Is there a regular polygon with an interior angle sum of 9000° ? If so, what is it?

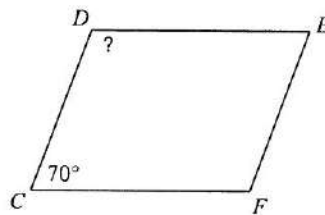
Properties of Parallelograms

Find the measurement indicated in each parallelogram.

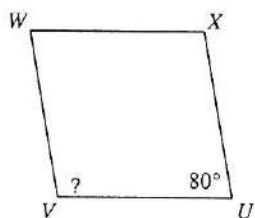
1)



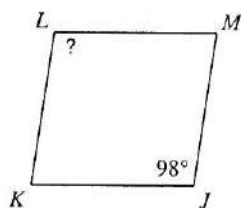
2)



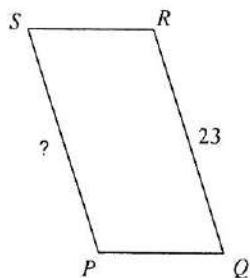
3)



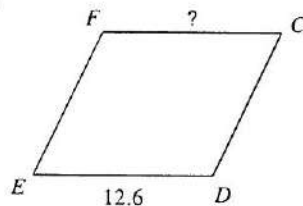
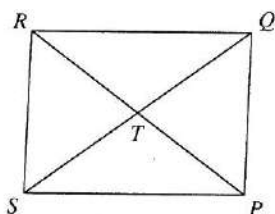
4)



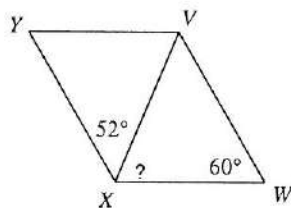
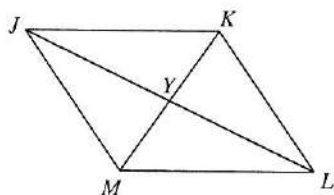
5)



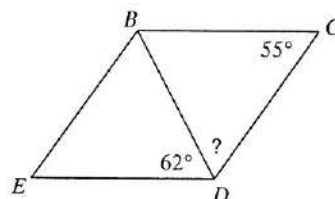
6)

7) $RT = 19.8$
Find RP 

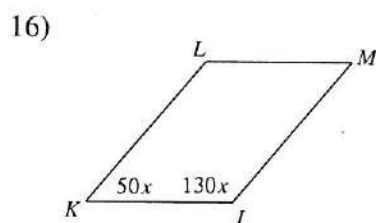
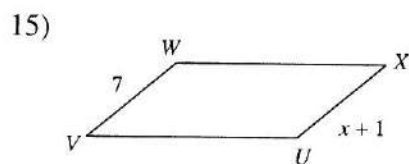
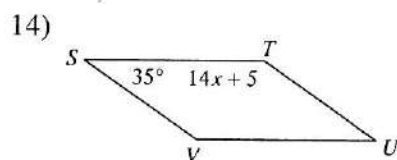
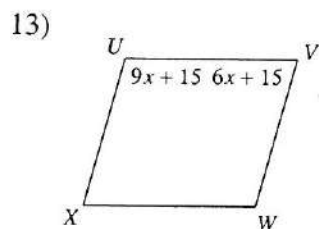
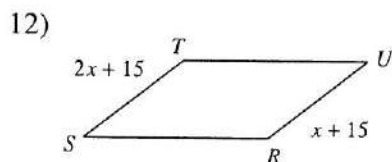
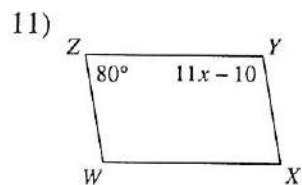
8)

9) $KM = 23.4$
Find YM 

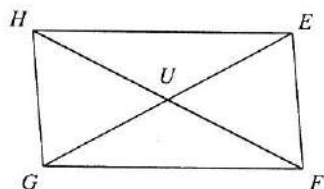
10)



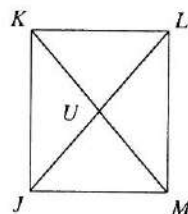
Solve for x . Each figure is a parallelogram.



17) $UH = 19$
 $FH = 5x - 7$

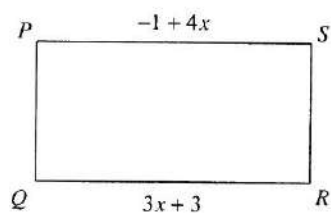


18) $KU = 3x + 3$
 $UM = 4x - 4$

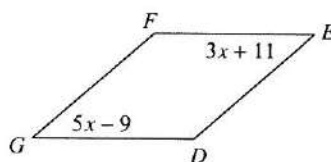


Find the measurement indicated in each parallelogram.

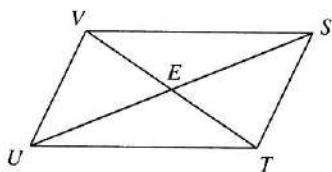
19) Find RQ



20) Find $m\angle G$



21) $TE = 4 + 2x$
 $EV = 4x - 4$
 Find TE



22) Find $m\angle TSR$

