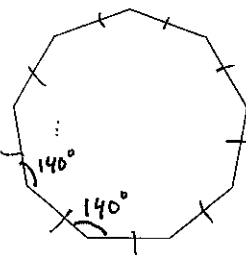
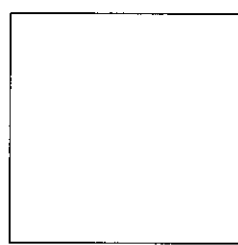


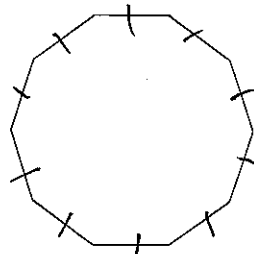
Day 1 polygons-Classwork/Homework

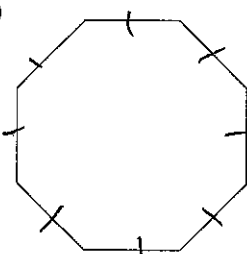
Date _____ Period _____

Name each figure then find the measure of one interior angle in each regular polygon. Round your answer to the nearest tenth if necessary.

1)  $n=9$
 Nonagon
 $\frac{(n-2)(180)}{n}$
 $\frac{(9-2)(180)}{9}$
 $\frac{(7)(180)}{9} = 140^\circ$

2)  $n=4$
 Quadrilateral
 $\frac{(4-2)(180)}{4} = \frac{360}{4} = 90^\circ$

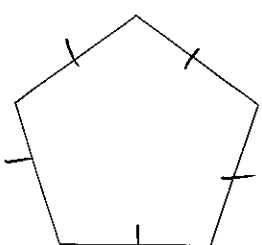
3)  $n=10$
 Decagon
 $\frac{(10-2)(180)}{10} = 144^\circ$

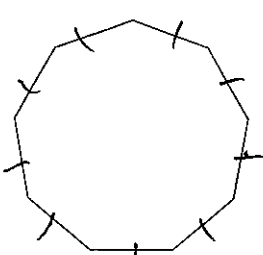
4)  $n=8$
 Octagon
 $\frac{(8-2)(180)}{8} = 135^\circ$

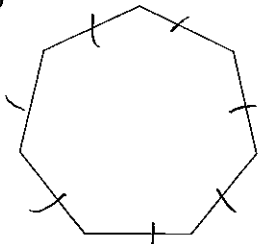
5) regular pentagon $n=5$
 $\frac{(5-2)(180)}{5} = 108^\circ$

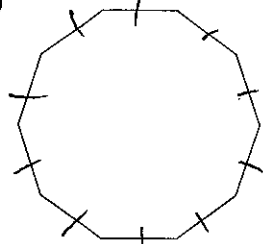
6) regular 22-gon $n=22$
 $\frac{(22-2)(180)}{22} = 163.6^\circ$

Name each figure then find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.

7)  $n=5$
 pentagon
 $(5-2)(180)$
 540°

8)  $n=9$
 Nonagon
 $(9-2)(180) = 1260^\circ$

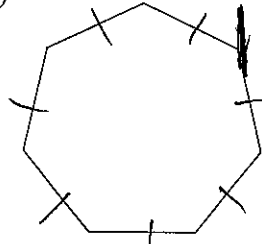
9)  $n=7$
 heptagon
 $(7-2)(180) = 900^\circ$

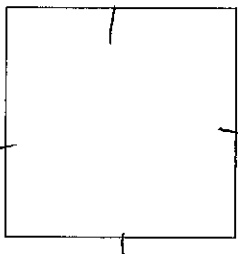
10)  $n=10$
 decagon
 $(10-2)(180) = 1440^\circ$

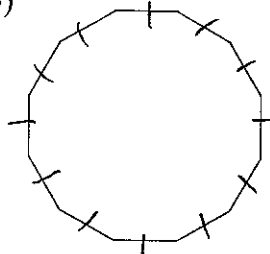
11) regular 22-gon $n=22$
 $(22-2)(180) = 3600^\circ$

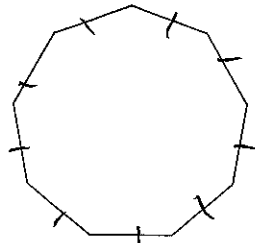
12) regular 13-gon $n=13$
 $(13-2)(180) = 1980^\circ$

Name each figure then find the measure of one exterior angle in each regular polygon. Round your answer to the nearest tenth if necessary.

13)  $n=7$
 heptagon
 $\frac{360}{7} = 51.4^\circ$

14)  $n=4$
 quadrilateral
 $\frac{360}{4} = 90^\circ$

15)  $n=12$
 dodecagon
 or
 12-gon
 $\frac{360}{12} = 30^\circ$

16)  $n=9$
 nonagon
 $\frac{360}{9} = 40^\circ$

17) regular 20-gon

$n=20$
~~2000~~ $\frac{360}{20} = 18^\circ$

18) regular octagon

$n=8$
 $\frac{360}{8} = 45^\circ$