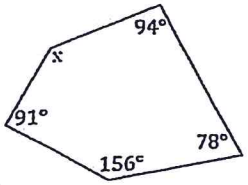
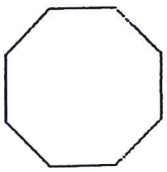
Unless otherwise noted, determine the measure of one interior angle in each polygon. Round your answer to the nearest tenth if necessary. Show use of formulas.

HW #8 show work.

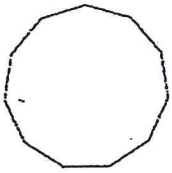
9. What is the value of x?



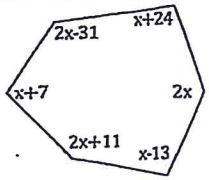
10. Find one angle



11.



12. What is the value of x?



13. regular 24-gon

14. regular quadrilateral

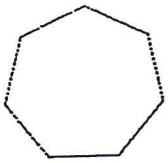
15. regular 23-gon

16. regular 16-gon

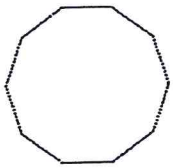
Now find the one angle on 13-18

On 13-18, find the sum of the angles, then find one angle.

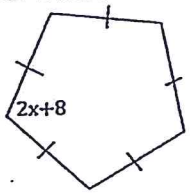
17.



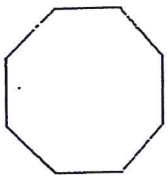
18.



19. What is the value of x?



20.



21. regular quadrilateral

22. regular 18-gon

23. regular dodecagon

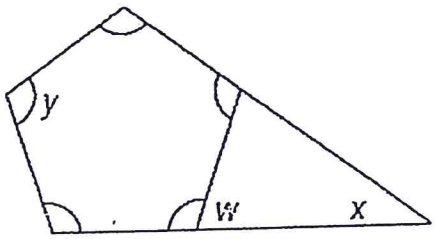
24. regular 15-gon

Find one angle →

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

26. How many sides does a polygon have if the sum of its interior angles is 2340°?

27. What are the values of w, x, and y?



Sketch and mark each sketch with congruent hatch marks or congruent angle marks, or parallel segment marks as appropriate.

1) Concave polygon CAVEIT
2) Convex polygon ABCDEFG
3) Regular polygon PENTA
4) Equilateral polygon RHOM
5) Equiangular polygon RECT
6) Parallelogram PERL
7) Rhombus BUSY
8) Kite FLYR
9) Trapezoid TRAP
10) Rectangle TANG
11) Square SQRE
12) Heptagon STOPIGN

Finish in notes if you did not finish in class.