REVIEW 8.1-8.3 ***Round to nearest tenth as needed.*** Name_____Hour___

Part A: Write down the number of sides for each given polygon.

1. triangle
2. heptagon
3. hexagon
4. decagon
5. quadrilateral
6. octagon
7. nonagon
8. pentagon
9. dodecagon

*Part B: Find the **sum** of the **interior angles** of each polygon.* ***FORMULA:*** _____

10. 154-gon

11. decagon

12. 17-gon

*Part C: Find the measure of **each interior angle** of the following **regular** polygons.*
FORMULA/PROCESS: _____

13. triangle

14. 25-gon

15. 11-gon

Part D:
*WHAT IS THE **SUM** OF THE **EXTERIOR** ANGLES OF ANY POLYGON??* _____
*Find the measure of **each exterior** angle of the given **regular** polygon.* ***FORMULA:*** _____

16. 62-gon

17. 18-gon

18. heptagon

*Part E: Given the measure of one interior angle of a **regular** convex polygon, find the measure of one of the exterior angles.* ***FORMULA:*** _____

19. Interior angle: 22°
    Exterior angle:

20. Interior angle: 145°
    Exterior angle:

21. Interior angle: 71°
Exterior angle:

*Part F: Given the measure of one exterior angle of a **regular** convex polygon, find the measure of one of the interior angles.* ***FORMULA:*** _____

22. Exterior angle: 53°
Interior angle:

23. Exterior angle: 145°
Interior angle:

Part G: Given the sum of the measures of the interior angles of a convex polygon, find the number sides in each polygon. ***FORMULA/PROCESS:*** _____

24. 4500

25. 10800

26. 1620

*Part H: Given an exterior angle measure of a **regular** polygon, find the number of sides.*
FORMULA/PROCESS: _____

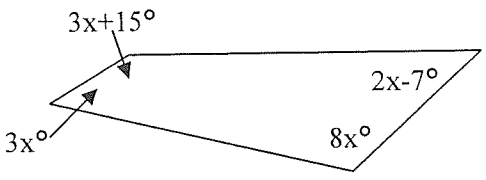
27. 22.5°

28. 45°

29. 10°

Part I: Find x in each problem.

30.



31.