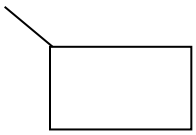
Sec I – Term 2 Special Triangles Name_____ ID: 1

Assignment: T2-24 Polygons Date_____Period_____

Which figures are polygons? Answer yes or no. If no, explain why not.

1. 
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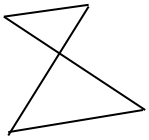
2. 
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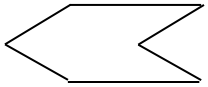
3. 
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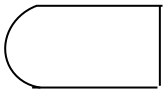
4. 
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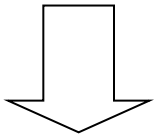
Which polygons are convex and which are concave? Name each polygon.

5. 
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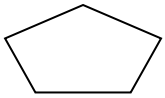
6. 
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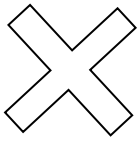
7. 
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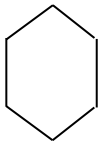
8. 
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Sketch each of the polygons. Include any necessary congruent marks.

9. Regular Octagon

10. Concave Triangle

11. Equiangular Pentagon

12. Equilateral Hexagon

13. Convex Quadrilateral

14. Concave Heptagon

Find the sum of the measures of the interior angles of each convex polygon.

15. decagon

sum of int. ∠ = _____

16. 16-gon

sum of int. ∠ = _____

17. 30-gon

sum of int. ∠ = _____

The number of sides of a regular polygon is given. Find the measure of an interior angle and an exterior angle for each polygon.

18. n = 10

int. ∠ = _____
ext. ∠ = _____

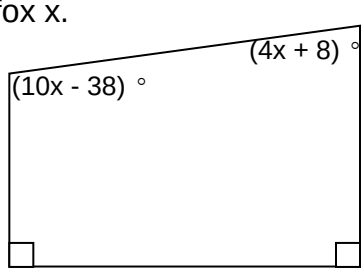
19. n = 5

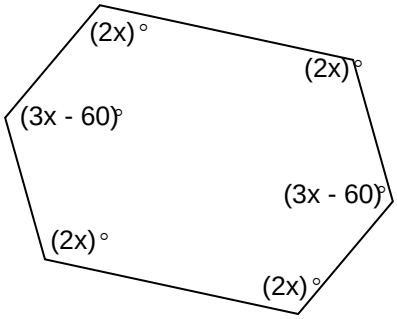
int. ∠ = _____
ext. ∠ = _____

20. n = 12

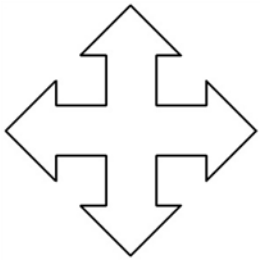
int. ∠ = _____
ext. ∠ = _____

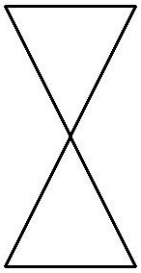
Solve fox x.

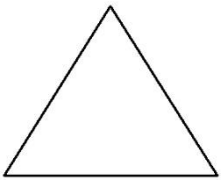
21. 

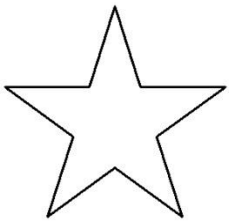
22. 

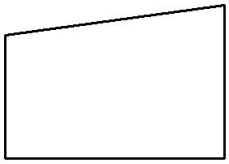
Write the order of rotational symmetry under each shape and the degrees of rotation. Also draw lines to indicate lines of symmetry.

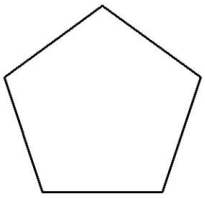
23. 

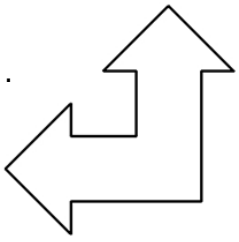
24. 

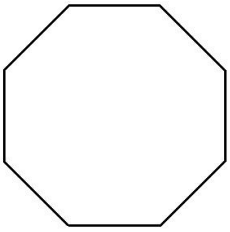
25. 

26. 

27. 

28. 

29. 

30. 

31.