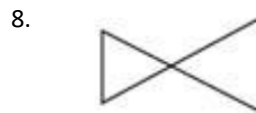
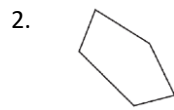


Unit 6.6 Convex and concave, types of polygons PRACTICE

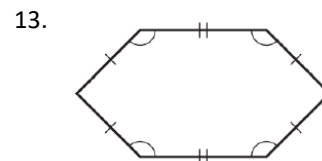
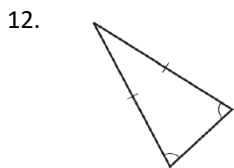
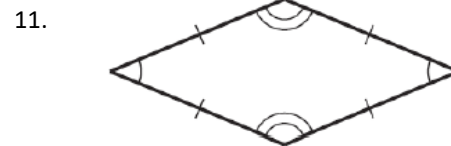
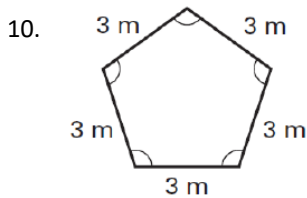
Period: _____

Tell whether the figure is a polygon. If it is not, explain why.

If it is a polygon, tell whether it is convex or concave and give the name of the polygon.



Classify the polygon by the number of sides. Tell which terms apply to the polygon: equilateral, equiangular, regular, or not regular.



14. The lengths of two sides of a regular quadrilateral are represented by the expressions $8x - 6$ and $4x + 22$. Find the length of a side of the quadrilateral.

15. The expressions $(3x + 63)^\circ$ and $(7x - 45)^\circ$ represent the measures of two angles of a regular decagon. Find the measure of an angle of the decagon.

Tell whether the statement is always, sometimes, or never true.

16. A quadrilateral is convex.

17. An octagon is regular.

18. A triangle is concave.

19. A regular polygon is equilateral.

Draw a figure that fits the description.

20. A triangle that is not regular

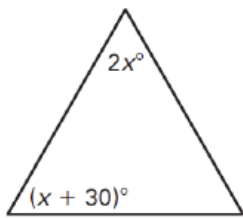
21. A convex heptagon

22. A concave pentagon

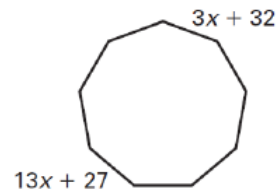
23. An equiangular quadrilateral that is not equilateral

Each figure is a regular polygon. Find the value of x .

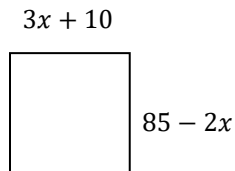
24.



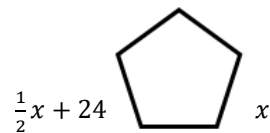
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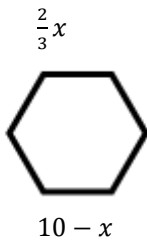
26.



27.



28.



29.

