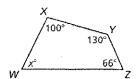
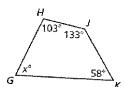
Which sun	n does <i>not</i> belong with the o	other three	? Explain your r	easoning.
the sun	n of the measures of the interior angles of a quadrilateral			ures of the exterior
	of the measures of the interior angles of a pentagon	<u>:</u>	he sum of the meas	ures of the exterior pentagon
Reasoning	3:			
iow all work	ind the sum of the measure			the indicated convex polygo Sum =
iow all work	s, including the equation.			
now all work	s, including the equation.			

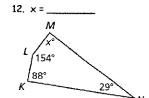
For #6-9, the sum of the measures of the interior angles of a convex polygon is given. Classify the polygon by the number of sides. Show all work, including the equation.

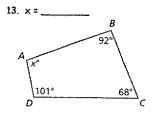
- 6. 720° Polygon: _____
- 7. 1080° Polygon:
- 8. 2520°
- 9. 3240° Polygon: _____

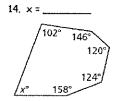
For #10 - 17, find the value of x. Show all work.

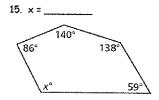


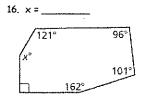


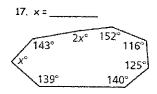




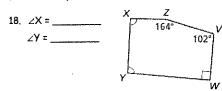




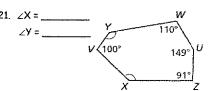




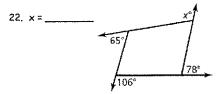
For #18 - 21, find the measures of $\angle X$ and $\angle Y$. Show all work.

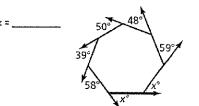


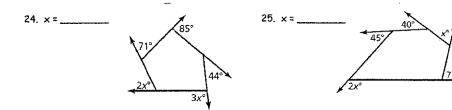
19.
$$\angle X = \frac{W}{47^{\circ}}$$



For #22 - 25, find the value of \times







26. The base of a jewelry box is shaped like a regular hexagon. What is the measure of each interior angle of the jewelry box base? Show all work, including the equation used.

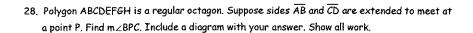
Each Interior Angle = ____

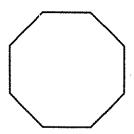
27. The floor of the gazebo shown is shaped like a regular decagon. Find the measure of each interior angle of the regular decagon. Then find the measure of each exterior angle. Show all work, including the equation used.

Each Interior Angle = ______

Each Exterior Angle = _____



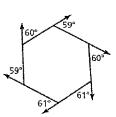




29. Is the hexagon shown a regular hexagon? Explain your reasoning.

Yes/No

Reasoning:



30. You are given a convex polygon. You are asked to draw a new polygon by increasing the sum of the interior angle measures by 540°. How many more sides does your new polygon have? Explain your reasoning.

of sides added: