$\qquad$
Review 8.1-8.3
What is the formula to find the sum on the interior angles of a convex polygon?

The sum of the exterior angles of a convex polygon is ALWAYS $\qquad$ .

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

| $1 . \quad$ Decagon | 2. 13-gon | $3 .$hexagon |  |
| :--- | :--- | :--- | :--- |

Classify the polygon by the \# of sides if the sum of the measures of the interior angles is given.

| 4. $900^{\circ}$ | $5640^{\circ}$ | $6.180^{\circ}$ |
| :--- | :--- | :--- | :--- |

Find the value of $x$.


Find the measure of an interior angle and an exterior angle of the REGULAR polygon.

| 9. Regular decagon | 10. Regular 30-gon | 11. Regular 45-gon |
| :--- | :--- | :--- |

Find the value of $n$ for each regular $n$-gon described.
12. Each interior angle of the regular $n$-gon has a measure of $165^{\circ}$.
13. Each exterior angle of the regular $n$-gon has a measure of $40^{\circ}$.

MNOP is a parallelogram. Points $Q, R, S$, and $T$ are midpoints of $\overline{M X}, \overline{N X}, \overline{O X}$, and $\overline{P X}$.
14. $\mathrm{PN}=$
15. $M Q=$
16. $X O=$
17. $m \angle N M Q=$
18. $m \angle N X O=$
19. $m \angle M N P=$
20. $m \angle N P O=$
21. $m \angle N O P=$


Find the value of each variable in the parallelogram.
22.

23.


Find the values of $x$ that ensure each quadrilateral is a parallelogram.
24.

25.


Draw quadrilateral $A B C D$ in the coordinate plane and then determine whether it's a parallelogram. Explain your reasoning.
26. $A(-2,3) \quad B(3,2) \quad C(3,-1) \quad D(-2,0)$


