## Pop Quiz <br> Get out a scrap sheet of paper.

1. Write the equation for finding the Sum of the Interior Angles of a Polygon.
2. Write the equation for finding the Sum of the Exterior Angles of a Polygon.
3. Write the equation for finding an Interior Angle of a Regular Polygon.

In Exercises 24 and 25, find the value of $\boldsymbol{n}$ for each regular $\boldsymbol{n}$-gin described.
24. Each interior angle of the regular $n$-gown has a measure of $175.2^{\circ}$.

$$
\begin{aligned}
\Omega \cdot \frac{180(n-2)}{x} & =175.2 \cdot n \\
180(n-2) & =175.2 n \\
180 n-360 & =175.2 n \\
-180 n & =180.0 n \\
\frac{-360}{-4.8} & =\frac{-4.8 n}{-4.8}
\end{aligned}
$$

25. Each exterior angle of the regular $n$-gown has a measure of $3^{\circ}$.

$$
\begin{gathered}
\Delta \cdot \frac{360}{x}=3 \cdot n \\
360=3 n \\
n=120
\end{gathered}
$$

## Homework Assignment Worksheet 11.1B

