Chapter 6/Lessons Through 6.2

Quiz 2

Complete each statement.

1. The sum of the measures of the $n$ angles of an $n$-gon is _______________.

2. The number of triangles formed in a decagon when all of the diagonals are drawn from one vertex is _______________.

3. The sum of the measures of the exterior angles of a 25-gon is _______________.

4. The measure of one angle in a regular octagon is _______________.

5. If the measure of one exterior angle of a regular polygon is $24^\circ$, then the polygon has _______________ sides.

Find the measure of each angle indicated in the figures below.

6. $a = ____$
   $b = ____$
   $c = ____$
   $d = ____$

7. $m = ____$  $r = ____$
   $n = ____$  $s = ____$
   $p = ____$  $t = ____$

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Chapter 6/Lessons Through 6.4  Quiz 3

Good Luck to ___________________________  Period_____  Date______

The figures in Problems 1 and 2 are kites. Find \( x \) and \( y \) for each.

1.  \[ \begin{align*}
48^\circ \\
75^\circ
\end{align*} \]
\[ x = \underline{\  } \quad y = \underline{\  } \]

2.  \[ \begin{align*}
151^\circ \\
73^\circ
\end{align*} \]
\[ x = \underline{\  } \quad y = \underline{\  } \]

The figures in Problems 3 and 4 are isosceles trapezoids. Find the missing values.

3.  \[ \begin{align*}
121^\circ \\
\quad \quad \quad \quad \\
\quad \quad \quad \quad \\
\quad \quad \quad \quad
\end{align*} \]
\[ x = \underline{\  } \quad y = \underline{\  } \]

4. Perimeter = 105 cm

\[ \begin{align*}
23 \text{ cm} \\
30 \text{ cm}
\end{align*} \]
\[ x = \underline{\  } \]