Practice Worksheet for Lesson 3-4 (part II)  

Find the value of x for each diagram.

1)  
\[
\begin{align*}
50^\circ & \quad 40^\circ \\
x^\circ & \quad 35^\circ
\end{align*}
\]

2)  
\[
\begin{align*}
70^\circ & \quad 35^\circ \\
x^\circ & \quad 140^\circ
\end{align*}
\]

Find the values for x and y for each diagram.

3)  
\[
\begin{align*}
50^\circ & \quad 40^\circ \\
35^\circ & \quad 70^\circ
\end{align*}
\]

4)  
\[
\begin{align*}
30^\circ & \quad > \\
x^\circ & \quad y^\circ
\end{align*}
\]

5)  
\[
\begin{align*}
40^\circ & \quad > \\
x^\circ & \quad 110^\circ
\end{align*}
\]

6) the two vertical lines are parallel

7)  
\[
\begin{align*}
90^\circ & \quad 50^\circ \\
x^\circ & \quad y^\circ
\end{align*}
\]

\[
\begin{align*}
65^\circ & \quad > \\
x^\circ & \quad 25^\circ
\end{align*}
\]
10) The largest two angles of a triangle are two and three times as large as the smallest angle. Find all three measures.

11) The measure of one angle of a triangle is 28 more than the measure of the smallest angle of the triangle. The measure of the third angle is twice the measure of the smallest angle. Find all three measures.

Find the values for $x$ and $y$ in the given diagrams.

12) the two horizontal lines are parallel

13) the two horizontal lines are parallel