A. Name the correct angle.

1) \( \angle \text{HAK} \) and \( \angle \) are supplementary angles.

2) \( \angle \text{BAS} \) and \( \angle \) are complementary angles.

3) \( \) and \( \angle \text{SAC} \) are vertical angles.

4) \( \) and \( \angle \text{SAH} \) are adjacent angles.

5) \( \angle 1 \) corresponds to \( \) 

6) \( \angle 7 \) corresponds to \( \) 

7) \( \angle 1 \) and \( \) are vertical angles.

8) \( \angle 4 \) and \( \) are alternate exterior angles.

9) \( \) and \( \angle 6 \) are alternate interior angles.

B. Find the correct angle measurement.

10) \( m \angle 1 = \) 

11) \( m \angle 3 = \) 

12) \( m \angle 4 = \) 

13) \( m \angle 5 = \)
Special Types of Angles – Worksheet #4

Lines x and y are parallel. The $m \angle 1 = 149^\circ$

14) a) $m \angle 2 =$ _____  
b) $m \angle 3 =$ _____  
c) $m \angle 4 =$ _____  
d) $m \angle 5 =$ _____  
e) $m \angle 6 =$ _____  
f) $m \angle 7 =$ _____  
g) $m \angle 8 =$ _____

C. Use your algebra skills to find the angle measurements.

15) a) Find the value of “x”.

   $$(4x + 12)^\circ$$
   $$\begin{array}{ccc}
   \angle 1 & \angle 2 & \angle 3 \\
   \angle 4 & \angle 5 & \angle 6
   \end{array}
   \hspace{2cm}
   (10x - 14)^\circ$$

   b) $m \angle 1 =$ _______

   c) $m \angle 2 =$ _______

Lines a and b are parallel.

16) a) Find the value of “x”.

   $$\begin{array}{ccc}
   a & \angle 1 & \angle 2 \\
   \angle 3 & \angle 4
   \end{array}
   \hspace{2cm}
   \begin{array}{ccc}
   b & \angle 5 & \angle 6 \\
   \angle 7 & \angle 8
   \end{array}$$

   b) $m \angle 1 =$ _______

   c) $m \angle 7 =$ _______