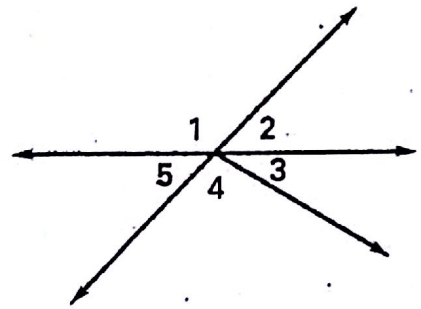


Unit 2 Angles Review Worksheet

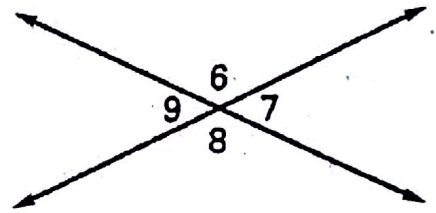
Use the figure at the right.

1. Are $\angle 1$ and $\angle 2$ a linear pair? *yes*
2. Are $\angle 4$ and $\angle 5$ a linear pair? *no*
3. Are $\angle 3$ and $\angle 1$ vertical angles? *no*
4. Are $\angle 2$ and $\angle 5$ vertical angles? *yes*



Use the figure at the right.

5. If $m\angle 6 = 51^\circ$, then $m\angle 7 = \underline{\quad? \quad}$. *129*
6. If $m\angle 8 = 103^\circ$, then $m\angle 6 = \underline{\quad? \quad}$. *103*
7. If $m\angle 9 = 136^\circ$, then $m\angle 8 = \underline{\quad? \quad}$. *44*
8. If $m\angle 7 = 53^\circ$, then $m\angle 9 = \underline{\quad? \quad}$. *53*



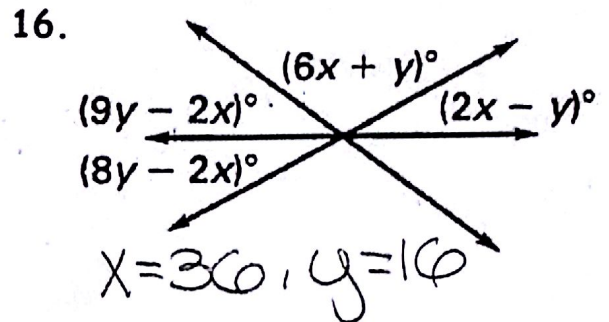
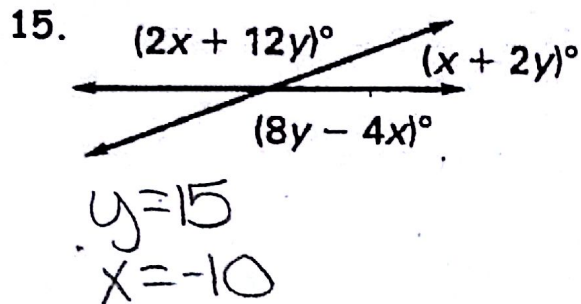
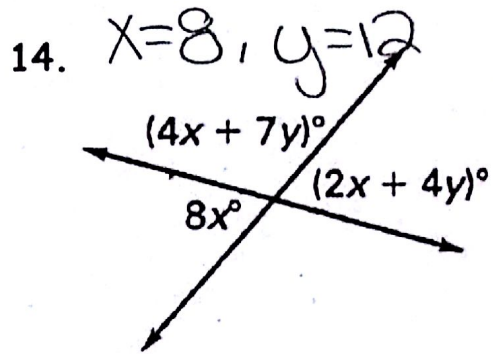
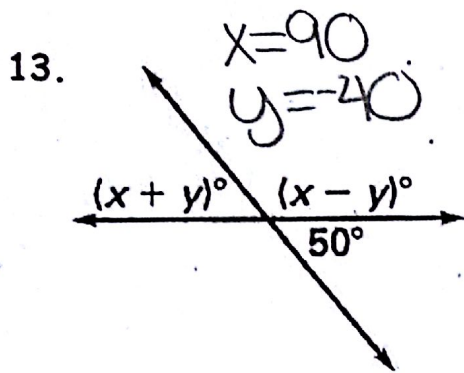
Find the value(s) of the variable(s).

9. $110 = 2x + 40$
 $x = 35$

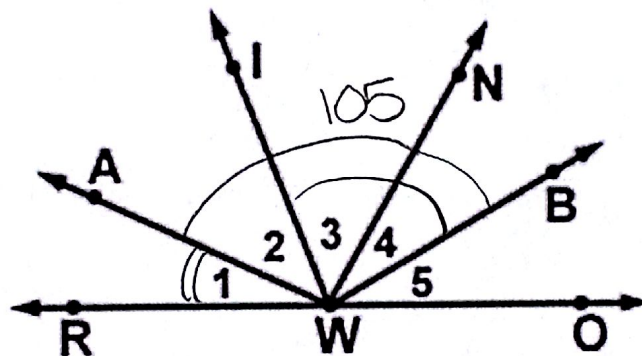
10. $x = 5x - 48$
 $x = 12$

11. $75 + 2x - 5 = 180$
 $70 + 2x = 180$
 $x = 55$

12. $3x + 8 + x = 180$
 $x = 43$



Use the diagram shown to answer the questions below:



17. Name 3 angles adjacent to $\angle IWB$. $\angle 2, \angle 5, \angle RWI$
18. If $m\angle 2 = 5x$, $m\angle 3 = 3(x+6)$, and $m\angle AWN = 74^\circ$, find x . $x=7$
19. If $m\angle 1 = 3x + 4$, $m\angle AWB = 105^\circ$, and $m\angle RWB = 8(x+8)$, find $m\angle 1$. $m\angle 1 = 31$
20. Suppose that \overline{WI} bisects $\angle AWN$, $m\angle 2 = 11(x-1)$, and $m\angle 3 = 7x+9$. Find x and $m\angle 2$. $x=5$
 $m\angle 2 = 44$