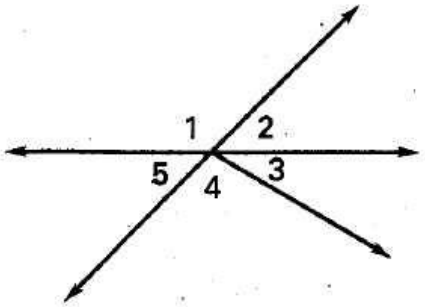
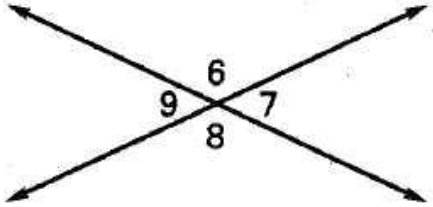
Unit 2 Angles Review Worksheet

Use the figure at the right.



1. Are $\angle 1$ and $\angle 2$ a linear pair?
2. Are $\angle 4$ and $\angle 5$ a linear pair?
3. Are $\angle 3$ and $\angle 1$ vertical angles?
4. Are $\angle 2$ and $\angle 5$ vertical angles?

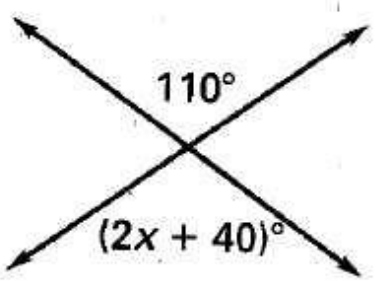
Use the figure at the right.



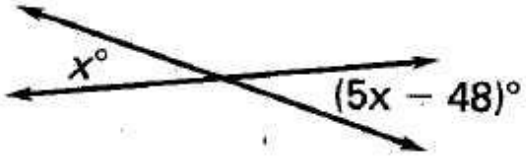
5. If $m\angle 6 = 51°$, then $m\angle 7 =$ ___?___.
6. If $m\angle 8 = 103°$, then $m\angle 6 =$ ___?___.
7. If $m\angle 9 = 136°$, then $m\angle 8 =$ ___?___.
8. If $m\angle 7 = 53°$, then $m\angle 9 =$ ___?___.

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

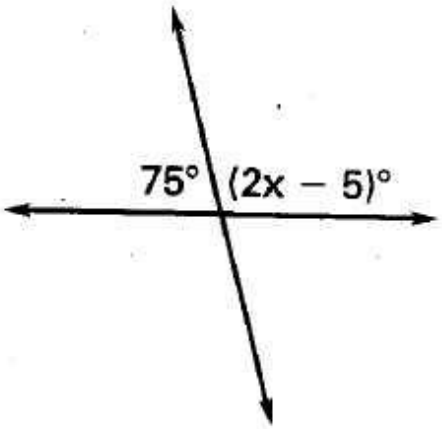
9.



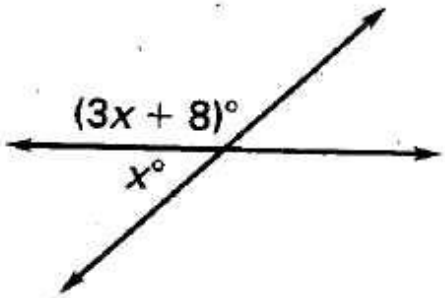
10.



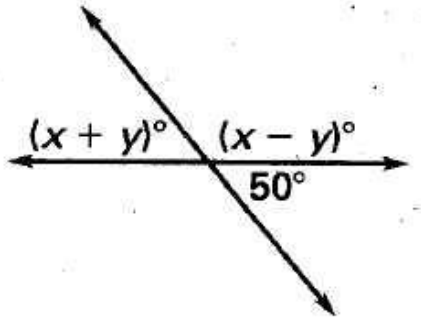
11.



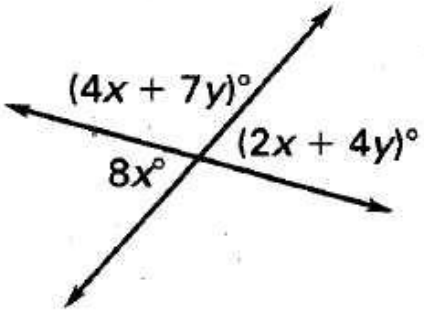
12.



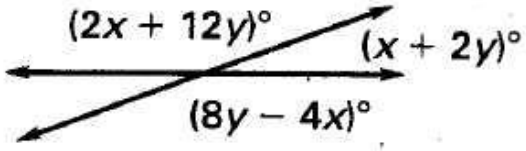
13.



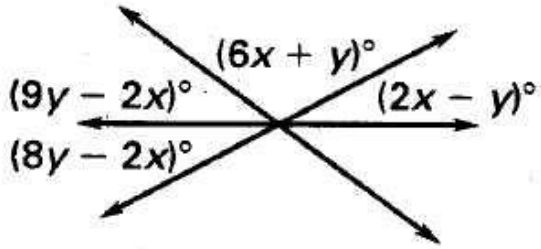
14.



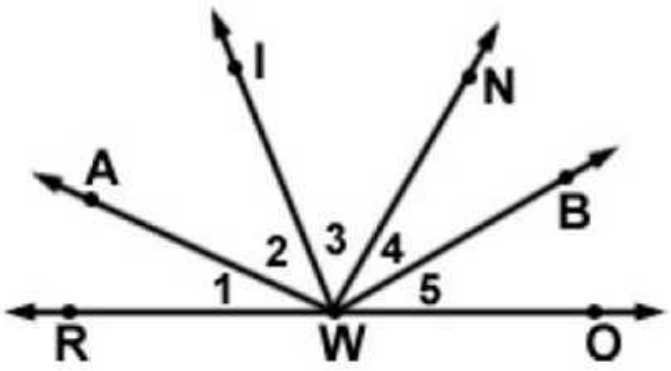
15.



16.



Use the diagram shown to answer the questions below:



17. Name 3 angles adjacent to ∠IWB. _____

18. If m∠2 = 5x, m∠3 = 3(x+6), and m∠AWN = 74°, find x. _____

19. If m∠1 = 3x + 4, m∠AWB = 105°, and m∠RWB = 8(x + 8), find m∠1.

20. Suppose that $\overline{WI}$ bisects ∠AWN, m∠2 = 11(x - 1), and m∠3 = 7x + 9. ___ Find x and m∠2. _____