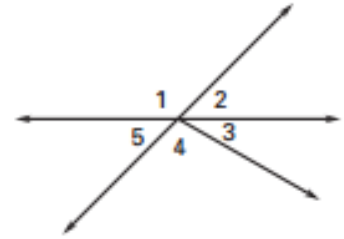


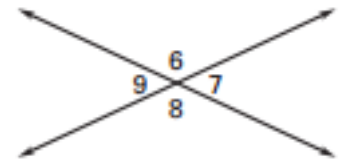
Use the figure at the right.

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



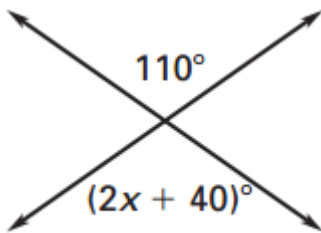
Use the figure at the right.

7. If $m\angle 6 = 51^\circ$, then $m\angle 7 =$ _____
8. If $m\angle 8 = 103^\circ$, then $m\angle 6 =$ _____
9. If $m\angle 9 = 136^\circ$, then $m\angle 8 =$ _____
10. If $m\angle 7 = 53^\circ$, then $m\angle 9 =$ _____

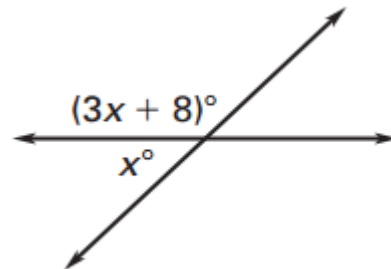


Find the value of the variable.

11.



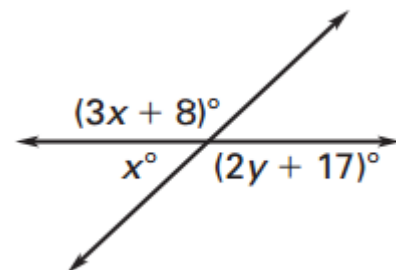
14.



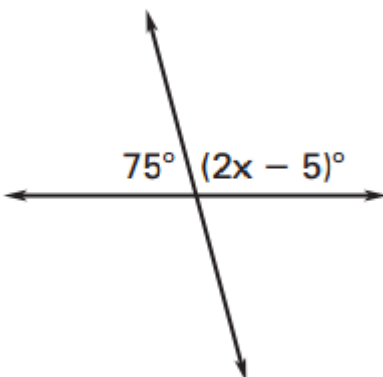
12.



15.



13.



Determine whether the given angle pair is *corresponding*, *alternate interior*, *alternate*, *exterior*, or *neither*.

16. $\angle 6$ and $\angle 10$

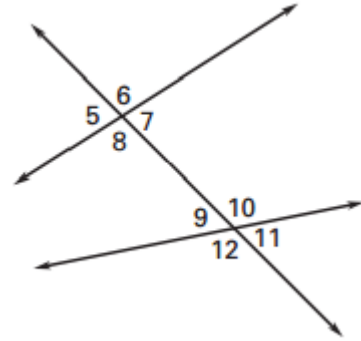
17. $\angle 7$ and $\angle 9$

18. $\angle 8$ and $\angle 9$

19. $\angle 12$ and $\angle 8$

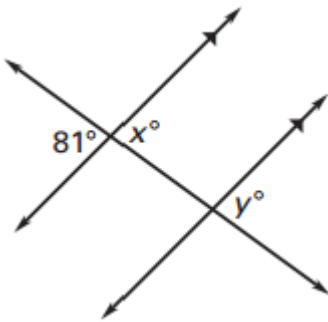
20. $\angle 5$ and $\angle 11$

21. $\angle 8$ and $\angle 10$

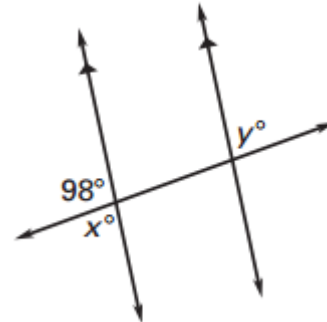


Find the values of x and y .

22.

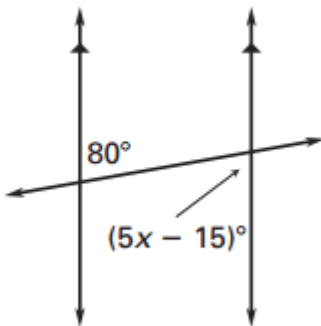


23.

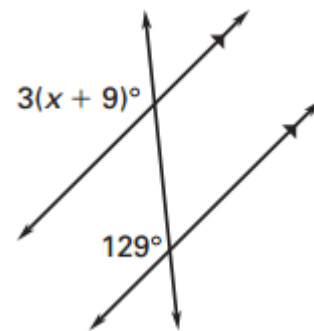


Find the value of x .

24.



26.



25.

