Name: _____ Date: _____ Row: _____ Period: _____

Assignment #: _____

Special Pairs of Angles

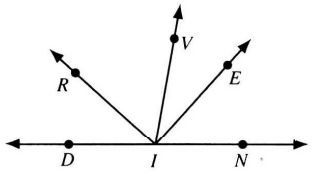
For use after Section 2–4

Find the measures of a complement and a supplement of $\angle C$.

1. $m\angle C = 36$ _____
2. $m\angle C = 5$ _____
3. $m\angle C = 70$ _____
4. $m\angle C = 29$ _____
5. $m\angle C = 49.2$ _____
6. $m\angle C = 168$ _____
7. $m\angle C = 11$ _____
8. $m\angle C = 2x$ _____

In the diagram, $m\angle RIE = 90$.

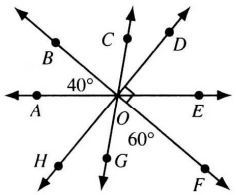
9. $\angle RIV$ is complementary to _____
10. $\angle RID$ is supplementary to _____
11. $\angle DIR$ is adjacent to angle _____
12. If $m\angle VIN = 80$ and $m\angle VIE = 32$, then $m\angle NIE =$ _____



Exs. 9–12

In the diagram, $m\angle DOF = 90$, $m\angle BOA = 40$, and $m\angle GOF = 60$. Complete.

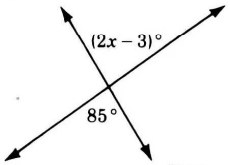
13. $m\angle BOD =$ _____
14. $m\angle FOE =$ _____
15. $m\angle GOE =$ _____
16. $m\angle BOC =$ _____
17. $m\angle COD =$ _____
18. $m\angle DOE =$ _____
19. $m\angle AOD =$ _____
20. $m\angle BOG =$ _____



Exs. 13–20

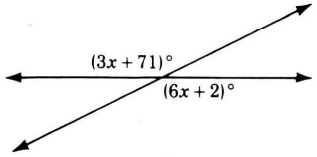
Find the value of x.

21.



$x =$ _____

22.



$x =$ _____

If $\angle C$ and $\angle D$ are complementary, complete the following.

23. $m\angle C = 3x$, $m\angle D = x - 6$

$x =$ ____, $m\angle C =$ ____, $m\angle D =$ ____

24. $m\angle C = x + 10$, $m\angle D = 2x - 7$

$x =$ ____, $m\angle C =$ ____, $m\angle D =$ ____

If $\angle E$ and $\angle F$ are supplementary, complete the following.

25. $m\angle E = 5y - 3$, $m\angle F = 2y + 1$

$y =$ ____, $m\angle E =$ ____, $m\angle F =$ ____

26. $m\angle E = y - 9$, $m\angle F = 4y + 14$

$y =$ ____, $m\angle E =$ ____, $m\angle F =$ ____

21)	22)	23)
24)	25)	26)