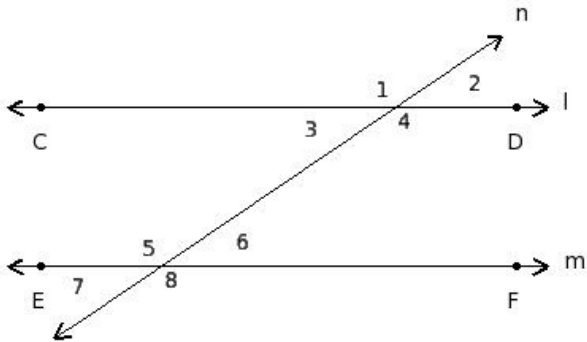


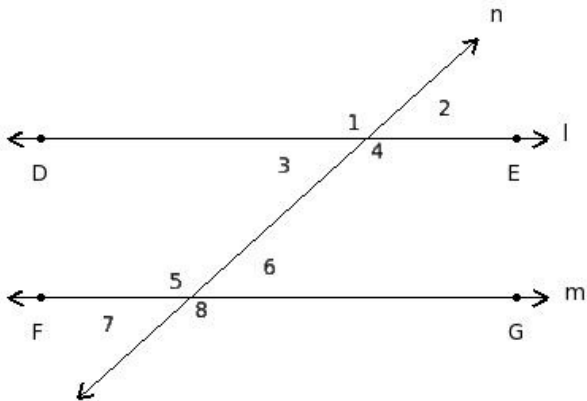


1. Find the adjacent angles in the given figure



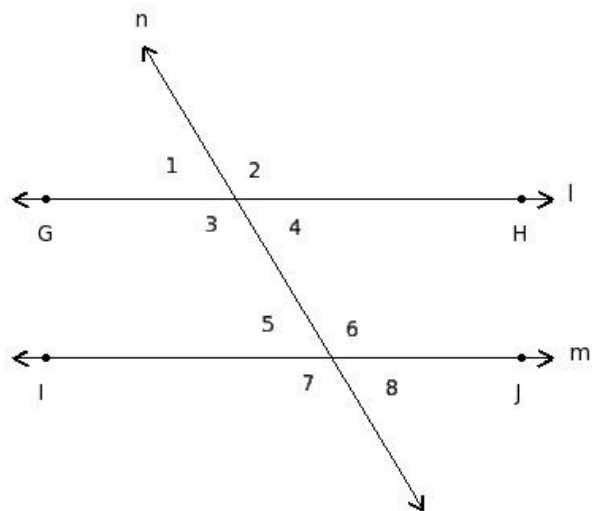
- (i) $\angle 1, \angle 5$; $\angle 2, \angle 6$; $\angle 3, \angle 7$; $\angle 4, \angle 8$
- (ii) $\angle 1, \angle 2$; $\angle 2, \angle 4$; $\angle 4, \angle 3$; $\angle 3, \angle 1$; $\angle 5, \angle 6$; $\angle 6, \angle 8$; $\angle 8, \angle 7$; $\angle 7, \angle 5$
- (iii) $\angle 1, \angle 4$; $\angle 2, \angle 3$; $\angle 5, \angle 8$; $\angle 6, \angle 7$ (iv) $\angle 1, \angle 8$; $\angle 2, \angle 7$ (v) $\angle 3, \angle 5$; $\angle 4, \angle 6$

2. Find the vertically opposite angles in the given figure



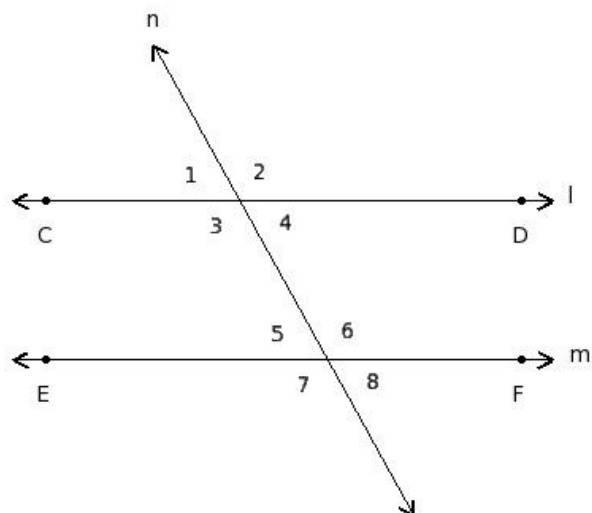
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$ (ii) $\angle 1, \angle 8$; $\angle 2, \angle 7$ (iii) $\angle 1, \angle 4$; $\angle 2, \angle 3$; $\angle 5, \angle 8$; $\angle 6, \angle 7$ (iv) $\angle 1, \angle 2, \angle 7, \angle 8$
- (v) $\angle 1, \angle 2$; $\angle 2, \angle 4$; $\angle 4, \angle 3$; $\angle 3, \angle 1$; $\angle 5, \angle 6$; $\angle 6, \angle 8$; $\angle 8, \angle 7$; $\angle 7, \angle 5$

3. Find the interior angles in the given figure



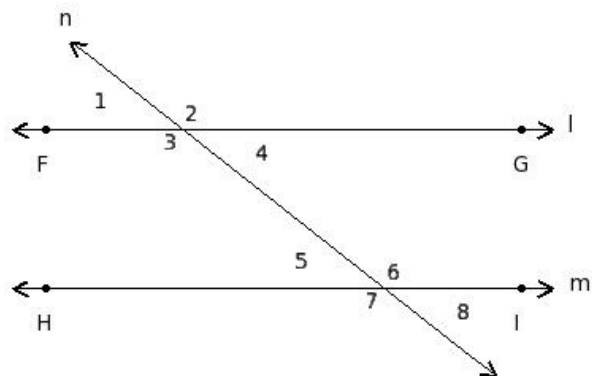
- (i) $\angle 1, \angle 8; \angle 2, \angle 7$ (ii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$ (iii) $\angle 3, \angle 4, \angle 5, \angle 6$
 (iv) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$
 (v) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$

4. Find the exterior angles in the given figure



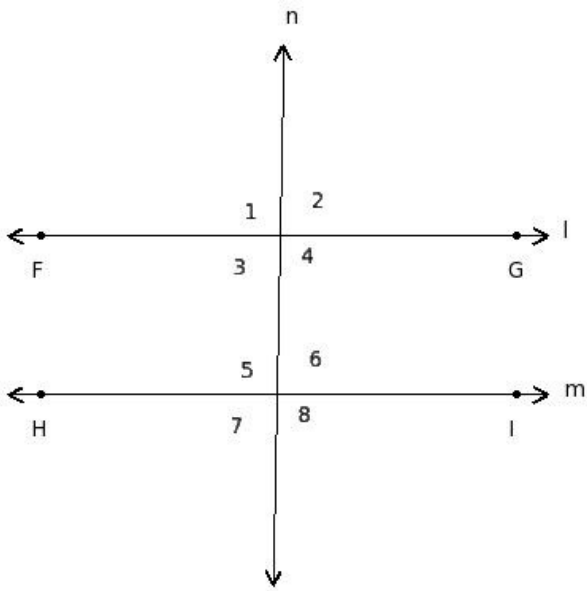
- (i) $\angle 1, \angle 8; \angle 2, \angle 7$ (ii) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$ (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
 (iv) $\angle 1, \angle 2, \angle 7, \angle 8$ (v) $\angle 3, \angle 4, \angle 5, \angle 6$

5. Find the interior alternate angles in the given figure



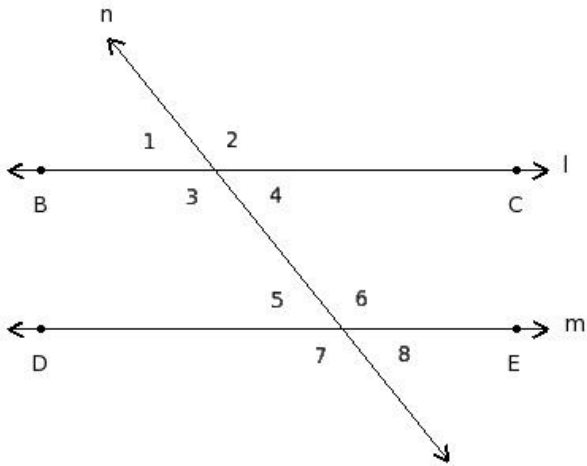
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$ (ii) $\angle 3, \angle 5; \angle 4, \angle 6$ (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
 (iv) $\angle 3, \angle 6; \angle 4, \angle 5$ (v) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$

6. Find the exterior alternate angles in the given figure



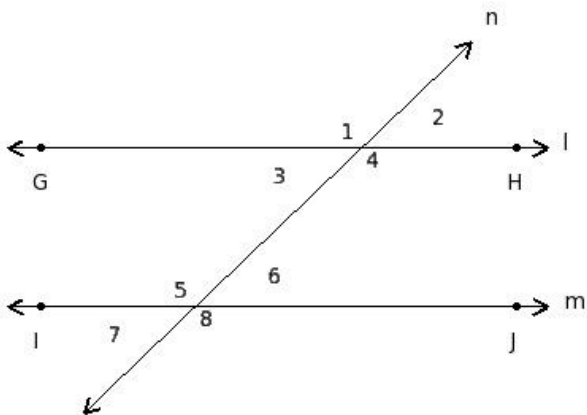
- (i) $\angle 1, \angle 2, \angle 7, \angle 8$ (ii) $\angle 1, \angle 8; \angle 2, \angle 7$ (iii) $\angle 3, \angle 5; \angle 4, \angle 6$
 (iv) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$ (v) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$

7. Find the corresponding angles in the given figure



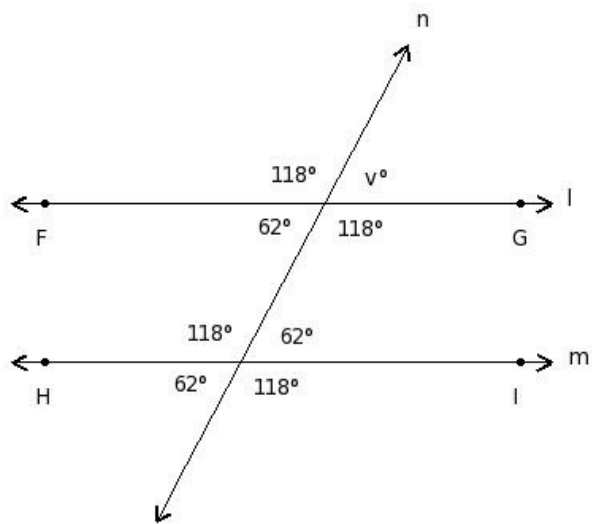
- (i) $\angle 3, \angle 6; \angle 4, \angle 5$ (ii) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$
 (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$ (iv) $\angle 3, \angle 4, \angle 5, \angle 6$ (v) $\angle 1, \angle 8; \angle 2, \angle 7$

8. Find the co-interior angles in the given figure



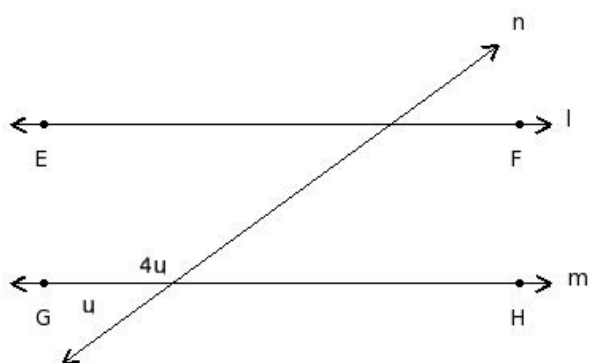
- (i) $\angle 1, \angle 8; \angle 2, \angle 7$ (ii) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$ (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
 (iv) $\angle 3, \angle 5; \angle 4, \angle 6$ (v) $\angle 1, \angle 2, \angle 7, \angle 8$

9. Find the value of 'v'



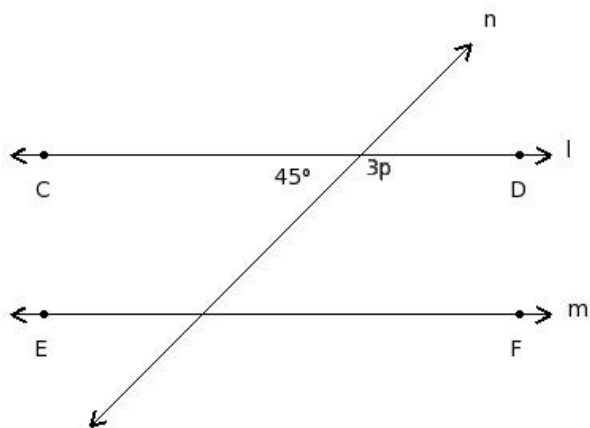
- (i) 62° (ii) 67° (iii) 72° (iv) 77° (v) 92°

10. In the given figure $l \parallel m$. Find the value of 'u'



- (i) 34 (ii) 35 (iii) 37 (iv) 36 (v) 38

11. In the given figure $l \parallel m$. Find the value of 'p'



- (i) 45 (ii) 44 (iii) 48 (iv) 46 (v) 42

12. Multiple lines drawn on a plane are called

- (i) intersecting lines (ii) coplanar lines (iii) perpendicular lines (iv) concurrent lines (v) parallel lines

13. Multiple lines which do not meet each other are called

- (i) concurrent lines (ii) perpendicular lines (iii) coplanar lines (iv) parallel lines (v) intersecting lines

14. Multiple lines which pass through the same point are called

- (i) coplanar lines (ii) intersecting lines (iii) perpendicular lines (iv) concurrent lines (v) parallel lines

15. A line that intersects two lines at two different points is called

- (i) parallel lines (ii) concurrent lines (iii) coplanar lines (iv) perpendicular lines (v) transversal

16. Two lines meeting at a point and making an angle of 90° at the meeting point are called

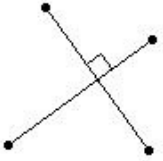
- (i) parallel lines (ii) perpendicular lines (iii) coplanar lines (iv) concurrent lines (v) intersecting lines

17. The following lines represent



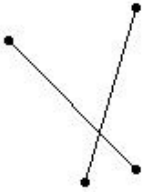
- (i) coplanar lines (ii) perpendicular lines (iii) parallel lines (iv) intersecting lines (v) concurrent lines

18. The following lines represent



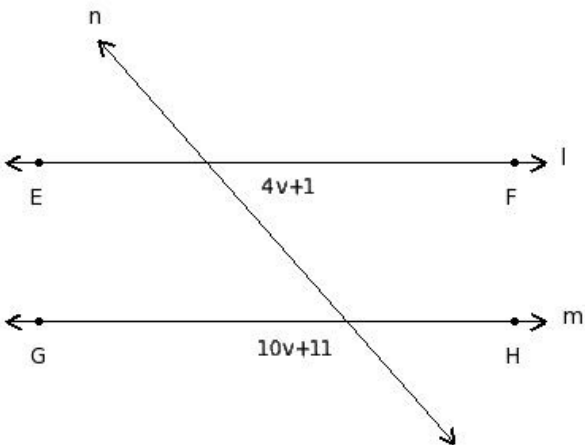
- (i) concurrent lines (ii) parallel lines (iii) coplanar lines (iv) intersecting lines (v) perpendicular lines

19. The following lines represent



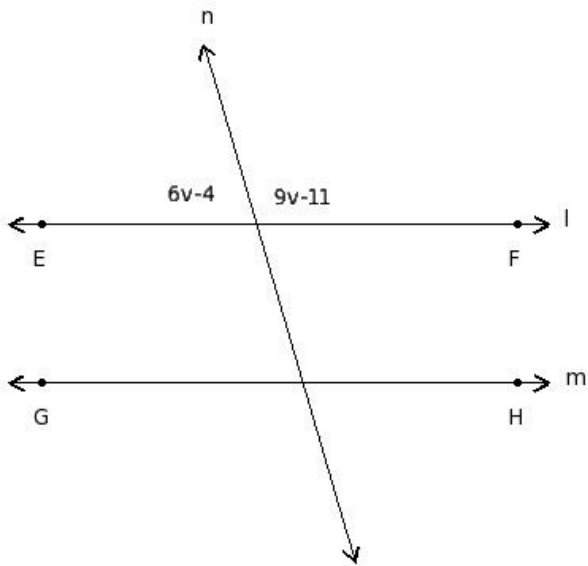
- (i) perpendicular lines (ii) parallel lines (iii) intersecting lines (iv) concurrent lines (v) coplanar lines

20. In the given figure $l \parallel m$. Find the value of 'v'



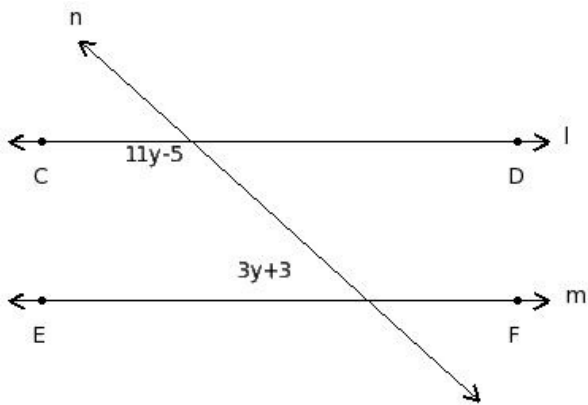
- (i) 11 (ii) 9 (iii) 13 (iv) 14 (v) 12

21. In the given figure $l \parallel m$. Find the value of 'v'



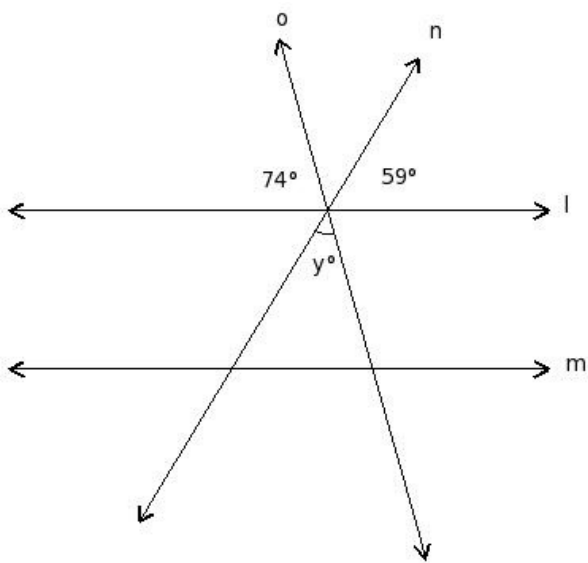
- (i) 13 (ii) 10 (iii) 12 (iv) 14 (v) 16

22. In the given figure $l \parallel m$. Find the value of 'y'



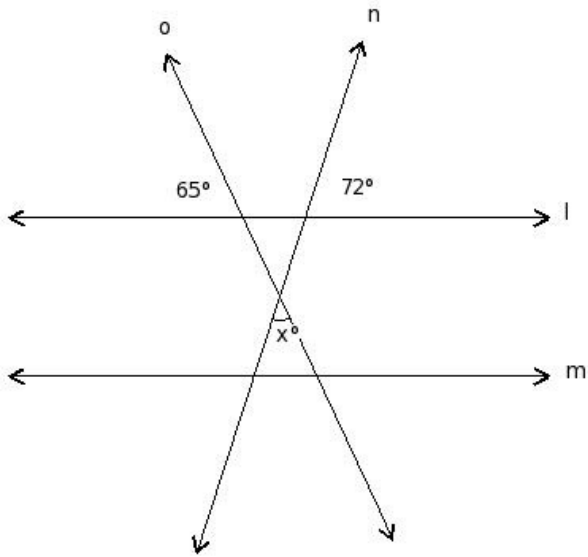
- (i) 13 (ii) 16 (iii) 14 (iv) 12 (v) 10

23. In the given figure $l \parallel m$. Find the value of 'y'



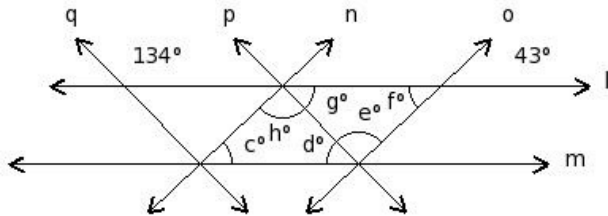
- (i) 47° (ii) 62° (iii) 77° (iv) 52° (v) 57°

24. In the given figure $l \parallel m$. Find the value of 'x'



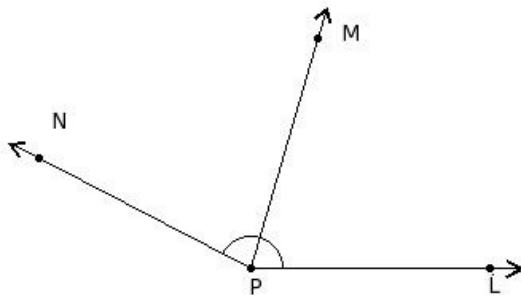
- (i) 43° (ii) 73° (iii) 58° (iv) 53° (v) 48°

25. In the given figure, $l \parallel m$ and $n \parallel o$ and $p \parallel q$. Find the values of {c,d,e,f,g,h}



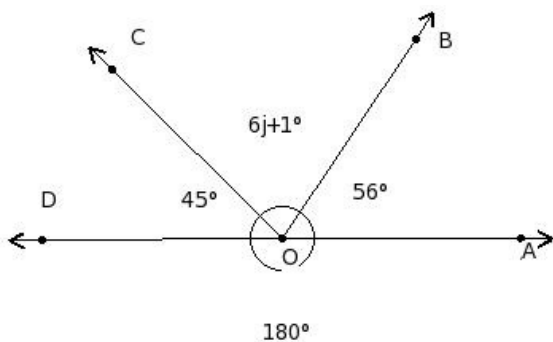
- (i) $43^\circ, 46^\circ, 91^\circ, 43^\circ, 46^\circ, 91^\circ$ (ii) $46^\circ, 91^\circ, 46^\circ, 43^\circ, 91^\circ, 43^\circ$ (iii) $46^\circ, 46^\circ, 91^\circ, 43^\circ, 43^\circ, 91^\circ$
 (iv) $91^\circ, 46^\circ, 91^\circ, 46^\circ, 43^\circ, 43^\circ$

26. Which of the following are adjacent angles in the below figure?



- (i) $\angle MPN, \angle OPP$ (ii) $\angle OPP, \angle MPN$ (iii) $\angle PPO, \angle MPN$ (iv) $\angle LPM, \angle MPN$ (v) $\angle NPL, \angle PPO$

27. Find the value of j in the figure below



- (i) 14 (ii) 13 (iii) 11 (iv) 12 (v) 15

28. Which of the following are true for alternate angles?

- a) They are in the same side of the transversal
- b) They are adjacent angles
- c) Both are interior angles
- d) They are not adjacent angles
- e) They are on either side of the transversal
- f) One is interior angle and the other is exterior

(i) {b,d} (ii) {b,c,d} (iii) {f,a,e} (iv) {a,c} (v) {c,d,e}

29. Which of the following are true for corresponding angles?

- a) Both are interior angles
- b) They are adjacent angles
- c) They are not adjacent angles
- d) They are on either side of the transversal
- e) One is interior angle and the other is exterior angle
- f) They are on the same side of the transversal

(i) {b,c,e} (ii) {b,e} (iii) {a,c} (iv) {c,e,f} (v) {d,a,f}

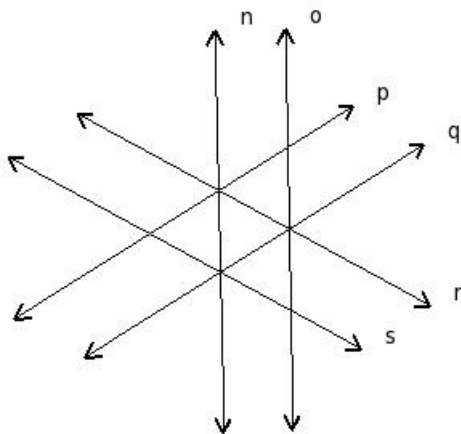
30. Which of the following are true?

- a) If $l \parallel m$ and $m \parallel n$, then $l \parallel n$
- b) If two lines are parallel to the same line, then they are parallel to each other
- c) If two lines are parallel to the same line, then they are perpendicular to each other
- d) If $l \perp m$ and $m \perp n$, then $l \perp n$
- e) If $l \perp m$ and $l \perp n$, then $m \perp n$

(i) {a,b} (ii) {e,c,a} (iii) {c,a} (iv) {d,b} (v) {d,b,a}

31. In the given figure, n, o, p, q, r, s are lines in a plane. By looking at the figure, which of the following are true?

- a) s is the transversal of p & n
- b) q is the transversal of n & o
- c) $n \parallel q$
- d) $n \parallel o$
- e) r is the transversal of p & q
- f) n is the transversal of p & r



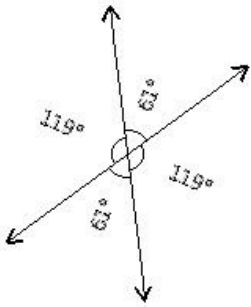
(i) {c,e,a} (ii) {c,f,d} (iii) {c,a} (iv) {a,b,d,e} (v) {f,b}

32. Which of the following are true with respect to lines g, h, i, j where $g \parallel h, h \perp i, i \perp j$?

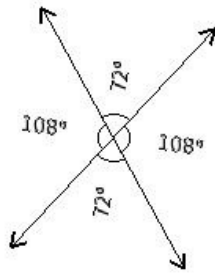
- a) $h \parallel j$
- b) $g \parallel i$
- c) $g \parallel j$
- d) $i \parallel j$
- e) $g \perp j$

(i) {e,b,a} (ii) {d,c} (iii) {d,c,a} (iv) {a,c} (v) {b,a}

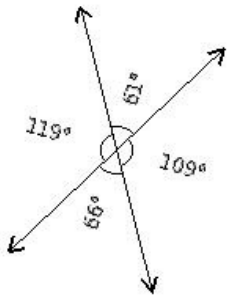
33. Which of the given figures is wrong?



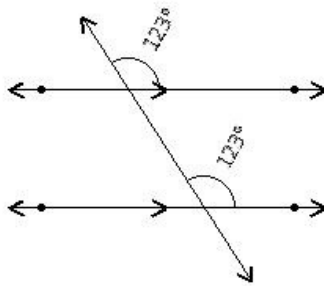
I



II



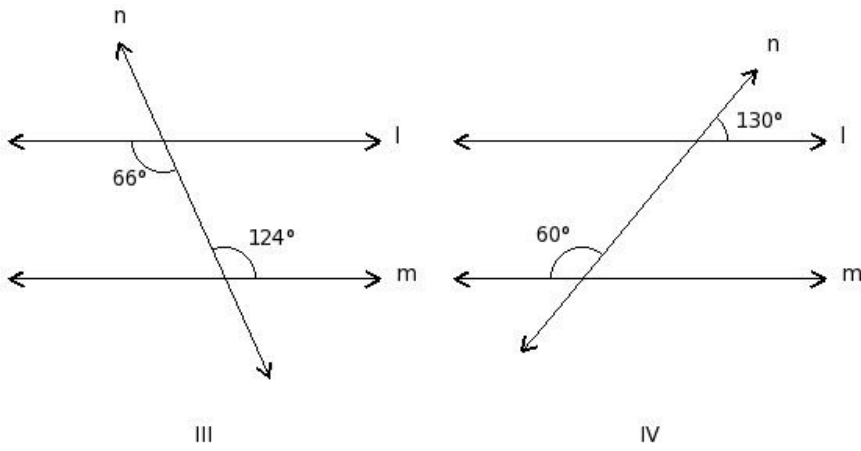
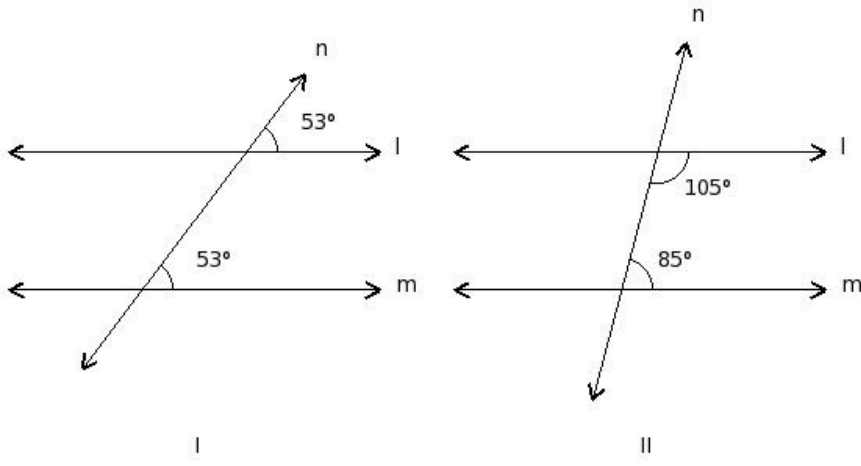
III



IV

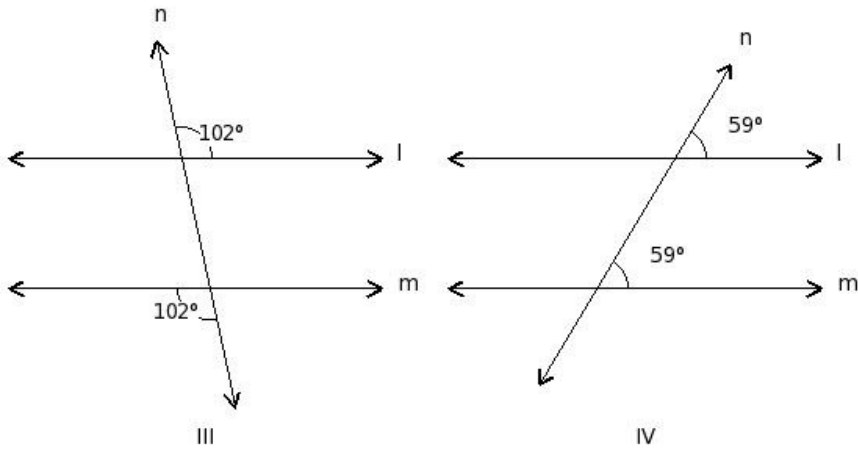
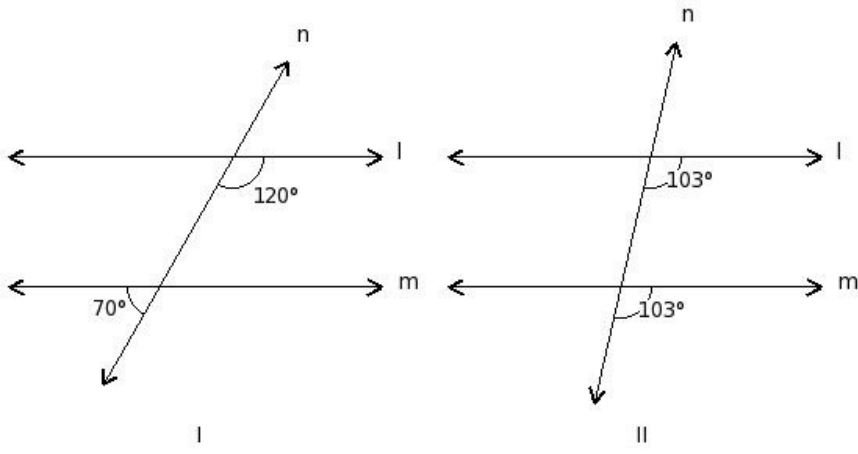
(i) I (ii) IV (iii) III (iv) II

34. In which of the figures given below, $l \parallel m$?



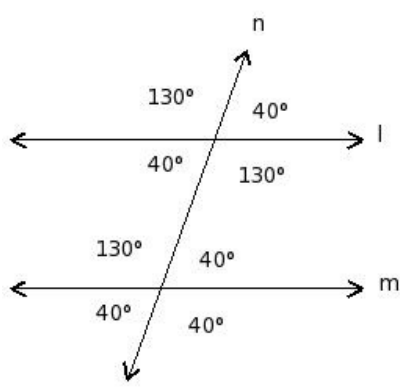
(i) III (ii) I (iii) II (iv) IV

35. In which of the figures given below, $l \parallel m$ (not parallel)?

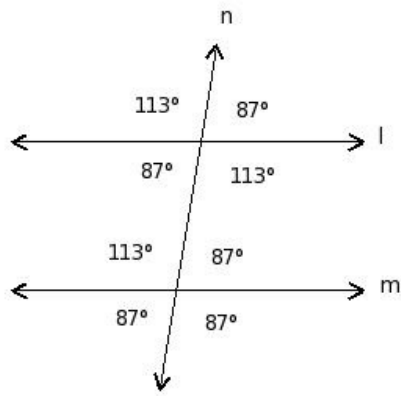


- (i) III (ii) I (iii) IV (iv) II

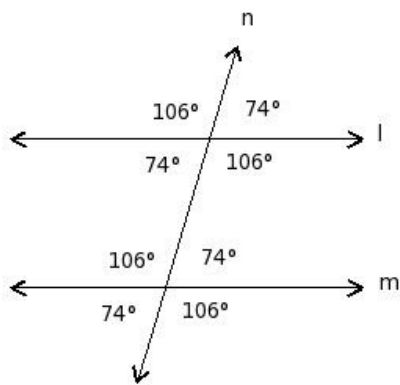
36. If $l \parallel m$, which of the given figures is correct?



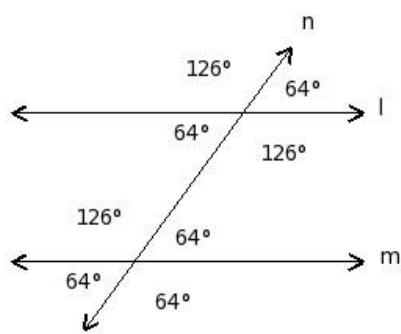
I



II



III



IV

(i) I (ii) IV (iii) II (iv) III

Assignment Key

1) (ii)	2) (iii)	3) (iii)	4) (iv)	5) (iv)	6) (ii)
7) (iii)	8) (iv)	9) (i)	10) (iv)	11) (i)	12) (ii)
13) (iv)	14) (iv)	15) (v)	16) (ii)	17) (iii)	18) (v)
19) (iii)	20) (v)	21) (i)	22) (i)	23) (i)	24) (i)
25) (i)	26) (iv)	27) (ii)	28) (v)	29) (iv)	30) (i)
31) (iv)	32) (iv)	33) (iii)	34) (ii)	35) (ii)	36) (iv)