



1. Multiple lines drawn on a plane are called

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

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

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

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

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

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

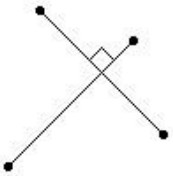
- (i) perpendicular lines (ii) coplanar lines (iii) parallel lines (iv) concurrent lines (v) transversal

5. The following lines represent



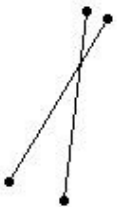
- (i) parallel lines (ii) concurrent lines (iii) intersecting lines (iv) perpendicular lines (v) coplanar lines

6. The following lines represent



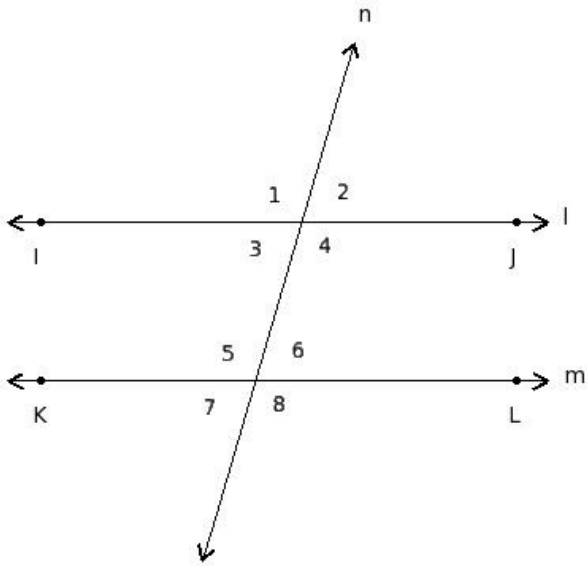
- (i) intersecting lines (ii) parallel lines (iii) perpendicular lines (iv) coplanar lines (v) concurrent lines

7. The following lines represent



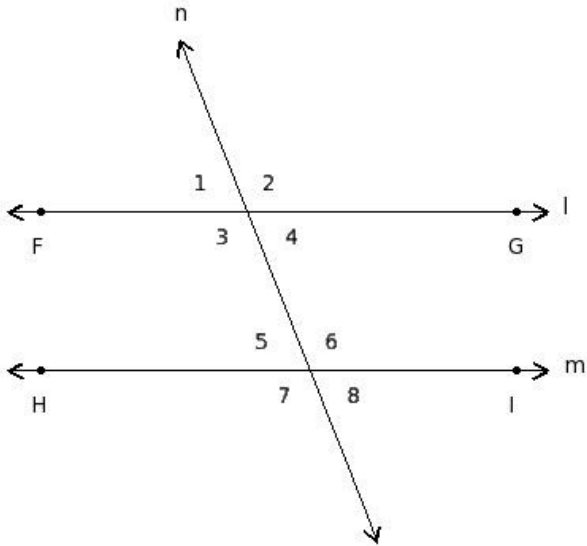
- (i) intersecting lines (ii) perpendicular lines (iii) coplanar lines (iv) parallel lines (v) concurrent lines

8. Find the adjacent angles in the given figure



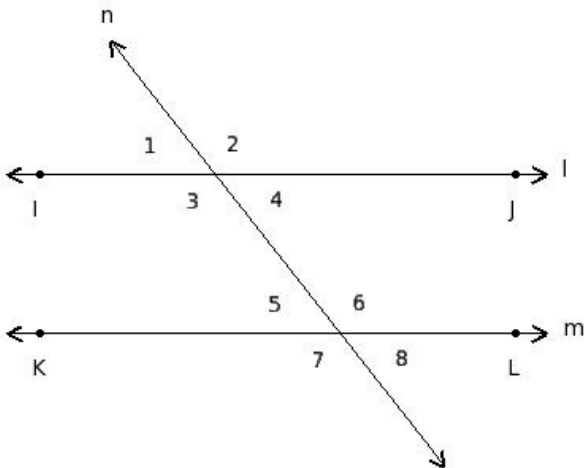
- (i) $\angle 1, \angle 5$; $\angle 2, \angle 6$; $\angle 3, \angle 7$; $\angle 4, \angle 8$ (ii) $\angle 1, \angle 4$; $\angle 2, \angle 3$; $\angle 5, \angle 8$; $\angle 6, \angle 7$ (iii) $\angle 1, \angle 2, \angle 7, \angle 8$
 (iv) $\angle 1, \angle 2$; $\angle 2, \angle 4$; $\angle 4, \angle 3$;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

9. Find the vertically opposite angles in the given figure



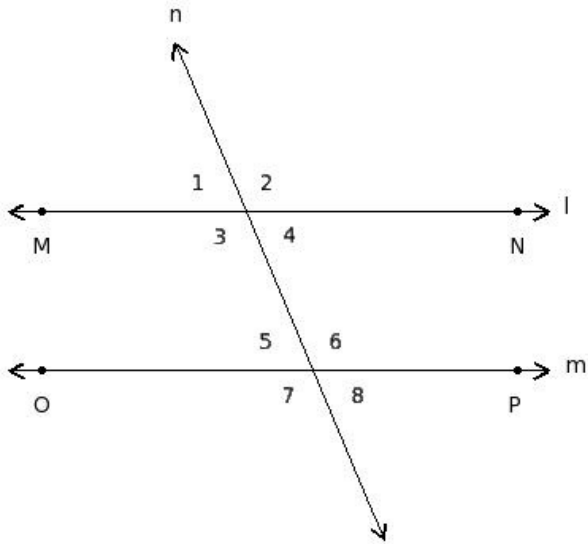
- (i) $\angle 1, \angle 2$; $\angle 2, \angle 4$; $\angle 4, \angle 3$; $\angle 3, \angle 1$; $\angle 5, \angle 6$; $\angle 6, \angle 8$; $\angle 8, \angle 7$; $\angle 7, \angle 5$ (ii) $\angle 3, \angle 4, \angle 5, \angle 6$
 (iii) $\angle 1, \angle 2, \angle 7, \angle 8$ (iv) $\angle 1, \angle 4$;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

10. Find the interior angles in the given figure



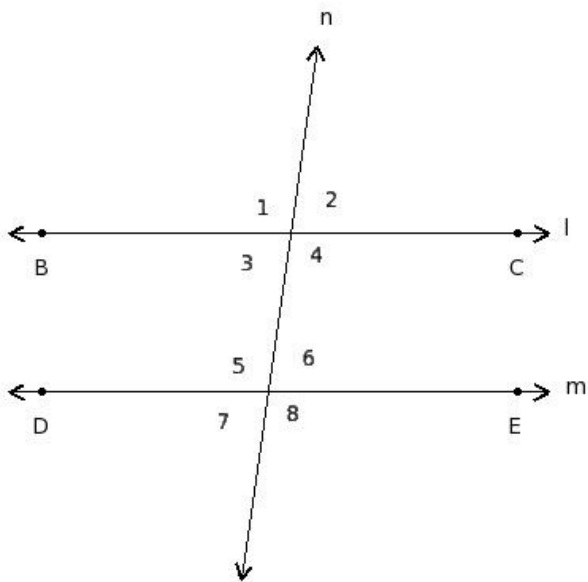
- (i) $\angle 1, \angle 5$; $\angle 2, \angle 6$; $\angle 3, \angle 7$; $\angle 4, \angle 8$ (ii) $\angle 3, \angle 4, \angle 5, \angle 6$ (iii) $\angle 1, \angle 8$; $\angle 2, \angle 7$
 (iv) $\angle 1, \angle 2$; $\angle 2, \angle 4$; $\angle 4, \angle 3$; $\angle 3, \angle 1$; $\angle 5, \angle 6$;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

11. Find the exterior angles in the given figure



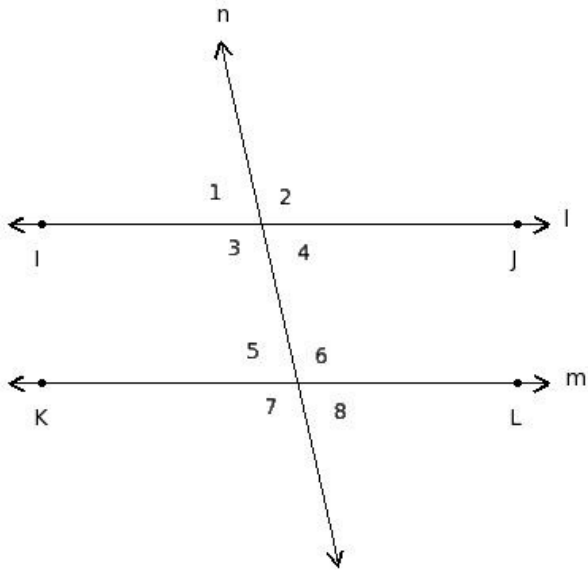
- (i) $\angle 1, \angle 2, \angle 7, \angle 8$ (ii) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$
 (iii) $\angle 3, \angle 6; \angle 4, \angle 5$ (iv) $\angle 1, \angle 8; \angle 2, \angle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

12. Find the interior alternate angles in the given figure



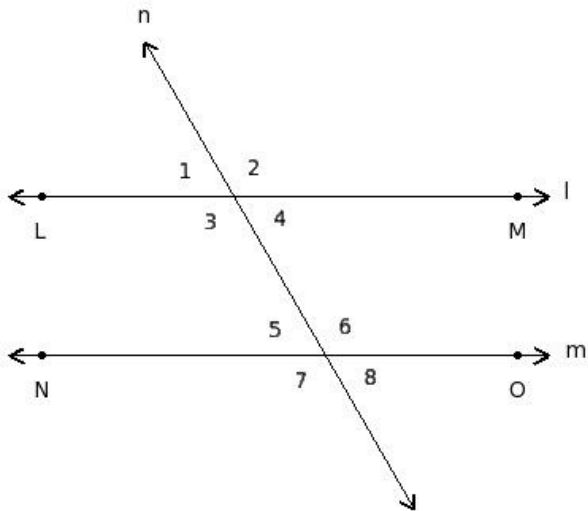
- (i) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$ (ii) $\angle 3, \angle 4, \angle 5, \angle 6$ (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
 (iv) $\angle 3, \angle 6; \angle 4, \angle 5$ (v) $\angle 3, \angle 5; \angle 4,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

13. Find the exterior alternate angles in the given figure



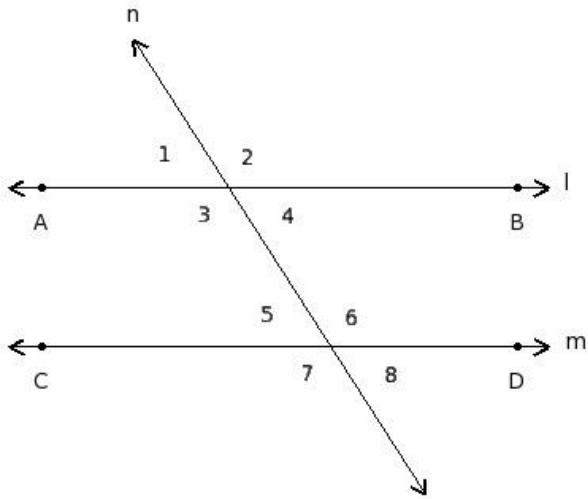
- (i) $\angle 1, \angle 2$; $\angle 2, \angle 4$; $\angle 4, \angle 3$; $\angle 3, \angle 1$; $\angle 5, \angle 6$; $\angle 6, \angle 8$; $\angle 8, \angle 7$; $\angle 7, \angle 5$ (ii) $\angle 3, \angle 5$; $\angle 4, \angle 6$
 (iii) $\angle 1, \angle 8$; $\angle 2, \angle 7$ (iv) $\angle 1, \angle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

14. Find the corresponding angles in the given figure



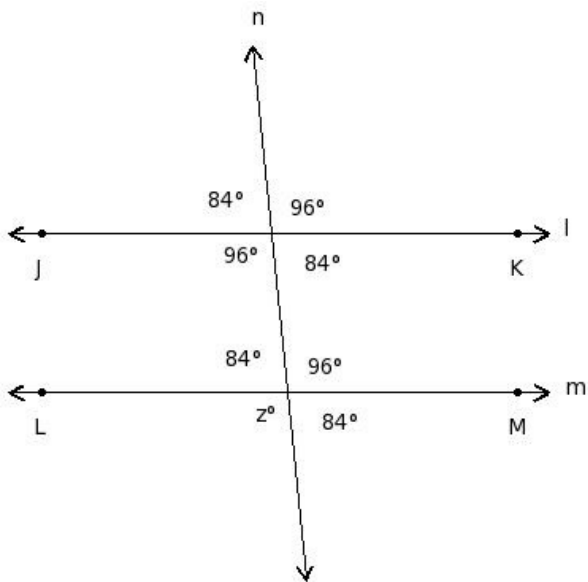
- (i) $\angle 1, \angle 8$; $\angle 2, \angle 7$ (ii) $\angle 1, \angle 2, \angle 7, \angle 8$ (iii) $\angle 1, \angle 5$; $\angle 2, \angle 6$; $\angle 3, \angle 7$; $\angle 4, \angle 8$
 (iv) $\angle 3, \angle 6$; $\angle 4, \angle 5$ (v) $\angle 1, \angle 2$; $\angle 2, \angle 4$; $\angle 4, \angle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

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



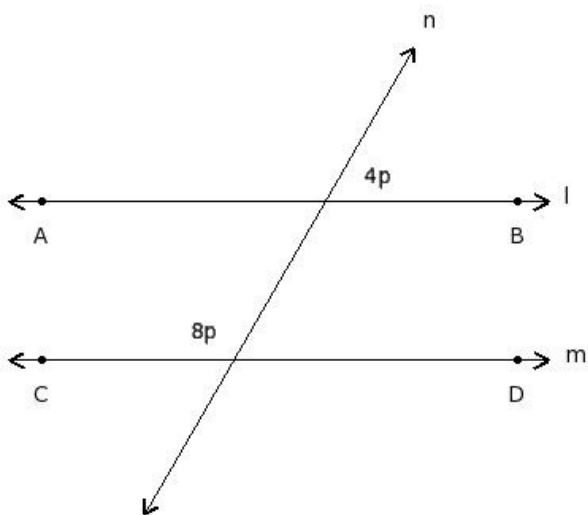
- (i) $\angle 3, \angle 5$; $\angle 4, \angle 6$ (ii) $\angle 1, \angle 5$; $\angle 2, \angle 6$; $\angle 3, \angle 7$; $\angle 4, \angle 8$
 (iii) $\angle 1, \angle 2$; $\angle 2, \angle 4$; $\angle 4, \angle 3$; $\angle 3, \angle 1$; $\angle 5, \angle 6$; $\angle 6, \angle 8$; $\angle 8, \angle 7$;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

16. Find the value of 'z'



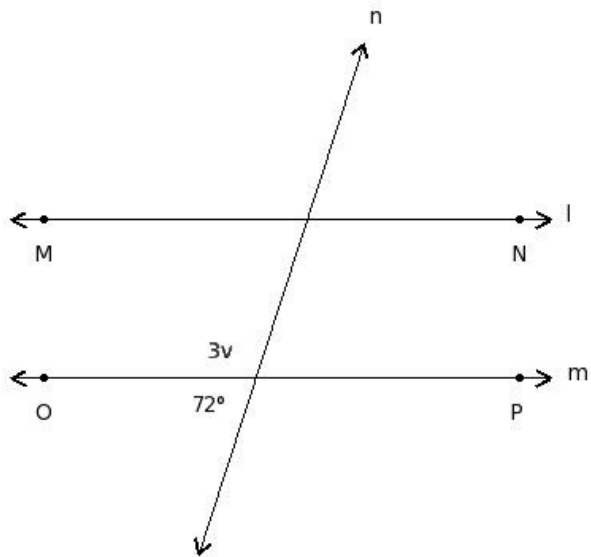
- (i) 101° (ii) 96° (iii) 126° (iv) 106° (v) 111°

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



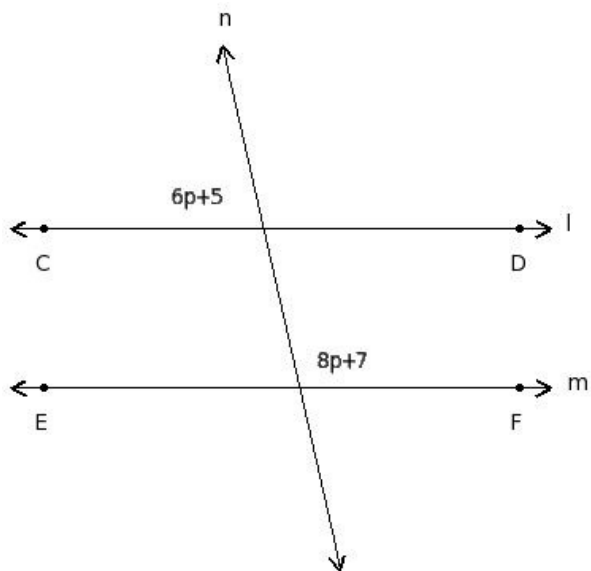
- (i) 16 (ii) 14 (iii) 18 (iv) 15 (v) 13

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



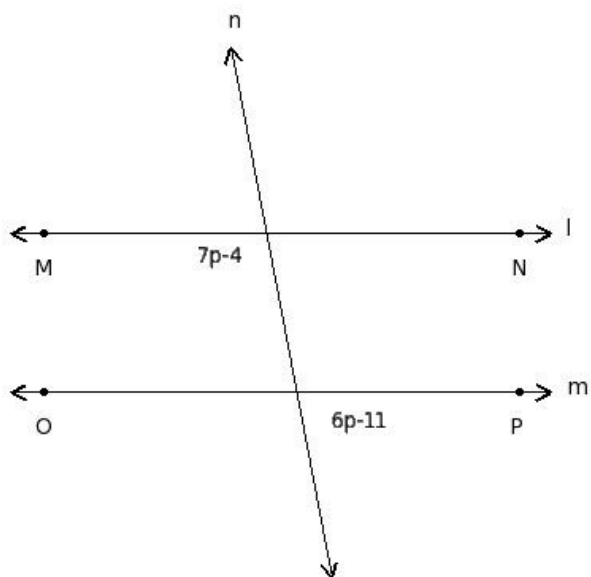
- (i) 35 (ii) 36 (iii) 37 (iv) 38 (v) 33

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



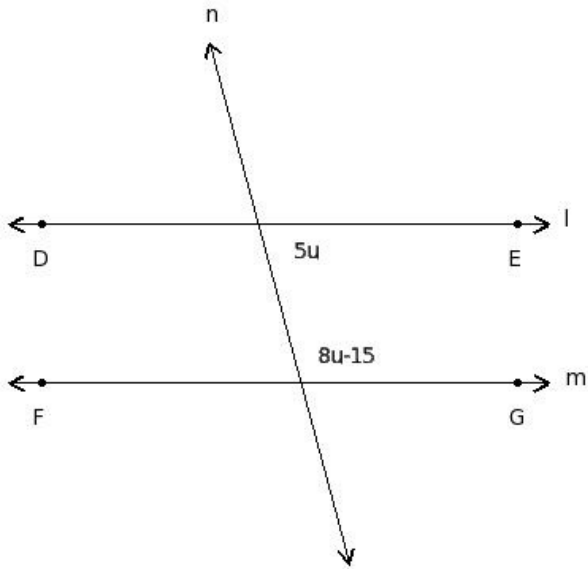
- (i) 14 (ii) 11 (iii) 9 (iv) 12 (v) 13

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



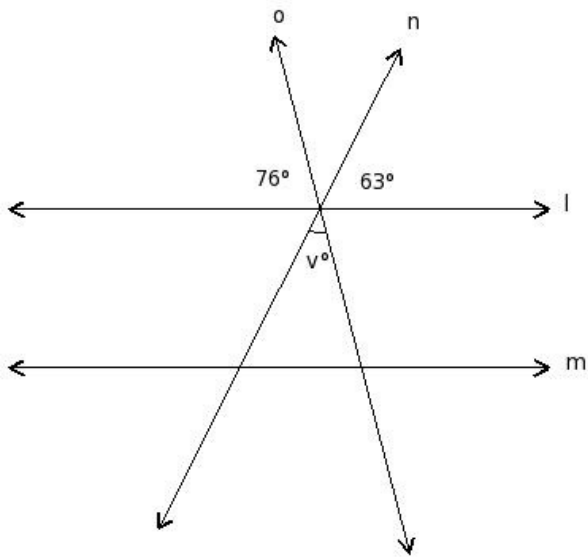
- (i) 17 (ii) 16 (iii) 12 (iv) 15 (v) 14

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



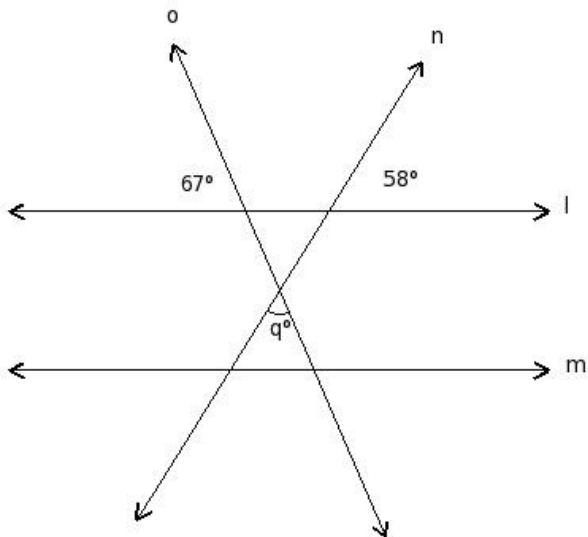
- (i) 18 (ii) 14 (iii) 15 (iv) 12 (v) 16

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



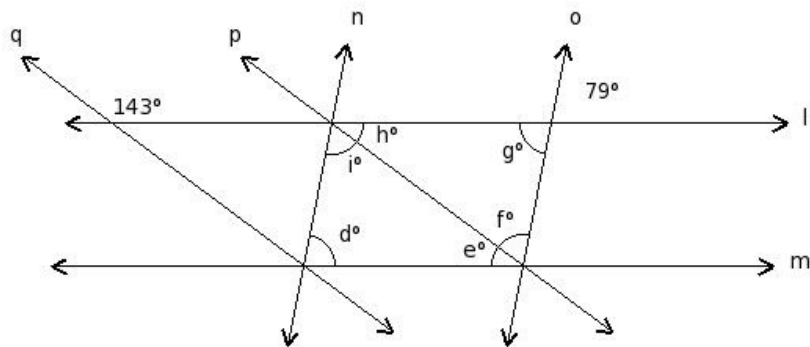
- (i) 56° (ii) 41° (iii) 71° (iv) 51° (v) 46°

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



- (i) 70° (ii) 60° (iii) 65° (iv) 85° (v) 55°

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



- (i) $79^\circ, 79^\circ, 37^\circ, 37^\circ, 64^\circ, 64^\circ$ (ii) $37^\circ, 79^\circ, 79^\circ, 64^\circ, 37^\circ, 64^\circ$ (iii) $79^\circ, 37^\circ, 64^\circ, 79^\circ, 37^\circ, 64^\circ$
 (iv) $64^\circ, 79^\circ, 79^\circ, 64^\circ, 37^\circ, 37^\circ$ (v) $37^\circ, 79^\circ, 79^\circ, 37^\circ, 64^\circ, 64^\circ$

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

- They are adjacent angles
- They are in the same side of the transversal
- Both are interior angles
- They are on either side of the transversal
- They are not adjacent angles
- One is interior angle and the other is exterior

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

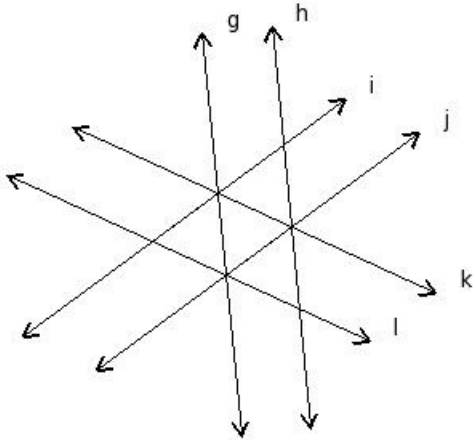
26. Which of the following are true for corresponding angles?

- Both are interior angles
- They are on either side of the transversal
- One is interior angle and the other is exterior angle
- They are not adjacent angles
- They are on the same side of the transversal
- They are adjacent angles

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

27. In the given figure, g, h, i, j, k, l are lines in a plane. By looking at the figure, which of the following are true?

- a) $g \parallel h$
- b) g is the transversal of i & k
- c) k is the transversal of i & j
- d) j is the transversal of g & h
- e) l is the transversal of i & g
- f) $g \parallel j$



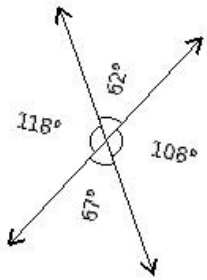
- (i) {f,c}
- (ii) {b,f,d}
- (iii) {a,c,d,e}
- (iv) {b,e,a}
- (v) {b,a}

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

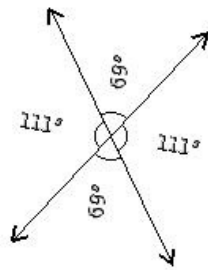
- a) $h \parallel k$
- b) $j \parallel k$
- c) $i \parallel k$
- d) $h \parallel j$
- e) $h \perp k$

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

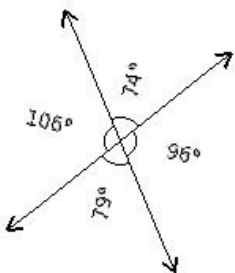
29. Which of the given figures is correct?



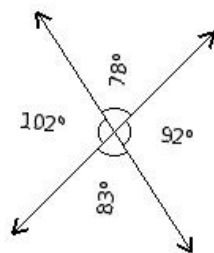
I



II



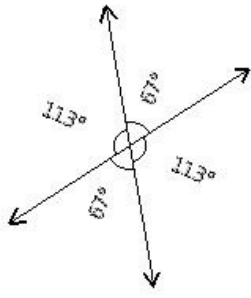
III



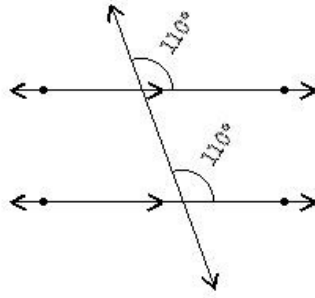
IV

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

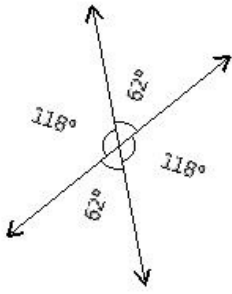
30. Which of the given figures is wrong?



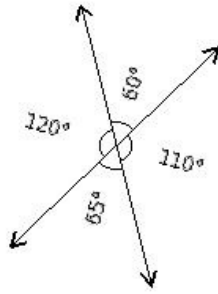
I



II



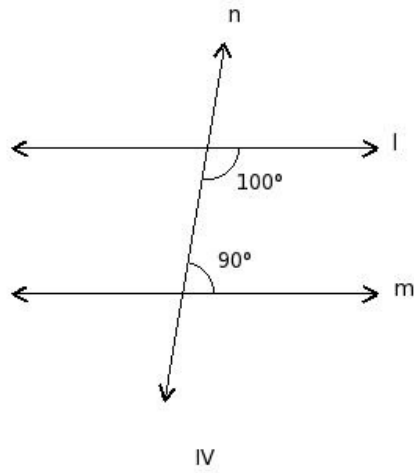
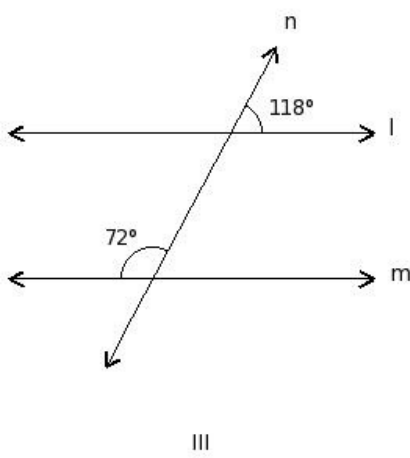
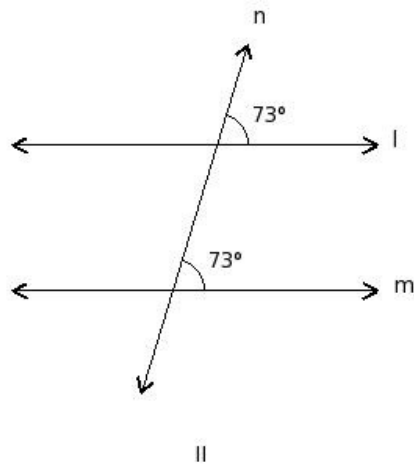
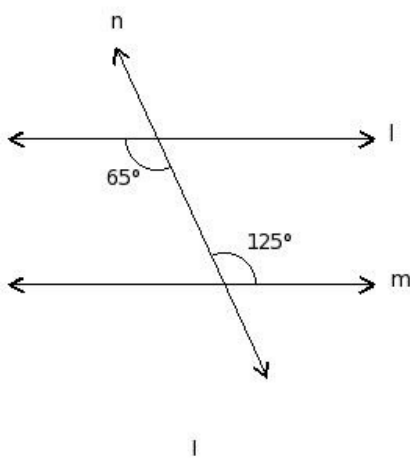
III



IV

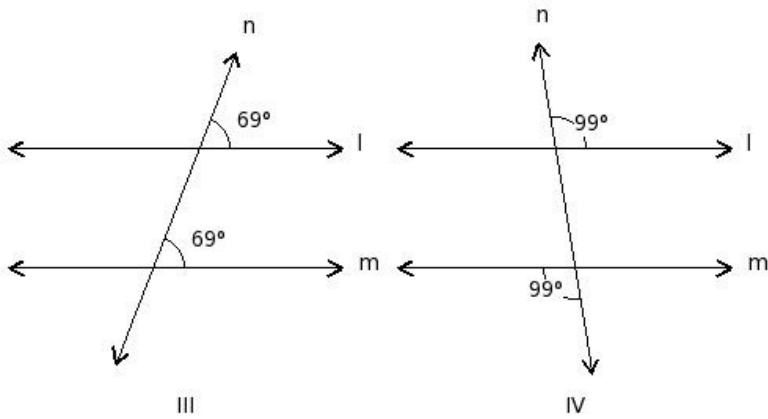
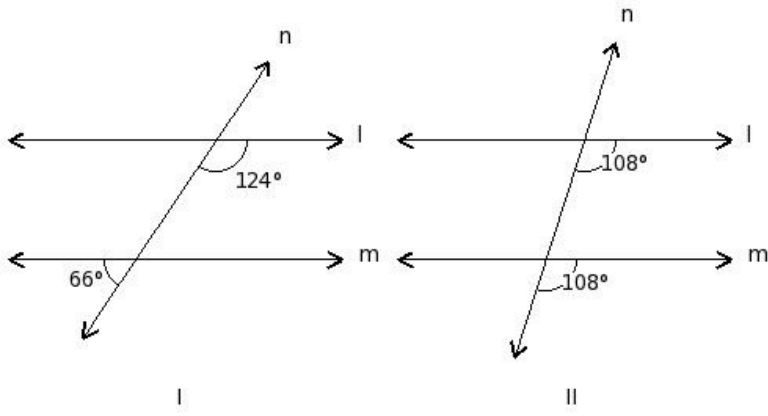
(i) II (ii) IV (iii) III (iv) I

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



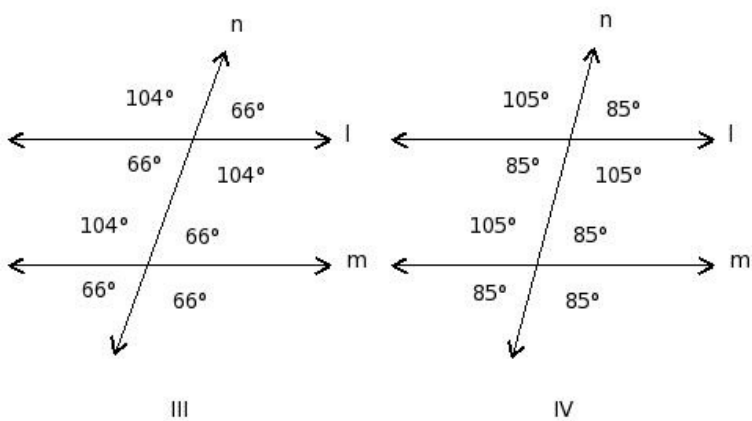
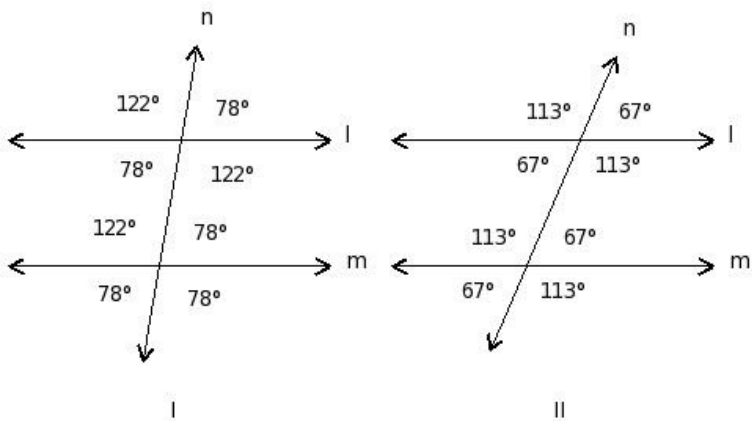
- (i) III (ii) I (iii) II (iv) IV

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



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

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



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

Assignment Key

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