

EduSahara™ Learning Center Assignment

Grade : Class VIII, ICSE
Chapter : Lines and Angles
Name : Parallel Lines and Transversal
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1. Multiple lines drawn on a plane are called

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

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

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

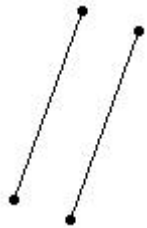
3. Multiple lines which pass through the same point are called

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

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

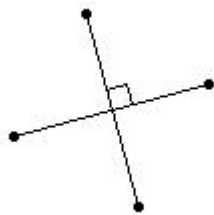
- (i) coplanar lines (ii) parallel lines (iii) concurrent lines
(iv) perpendicular lines (v) transversal
-

5. The following lines represent



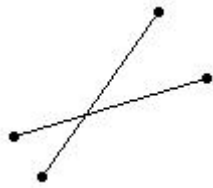
- (i) coplanar lines (ii) concurrent lines (iii) intersecting lines
(iv) parallel lines (v) perpendicular lines
-

6. The following lines represent



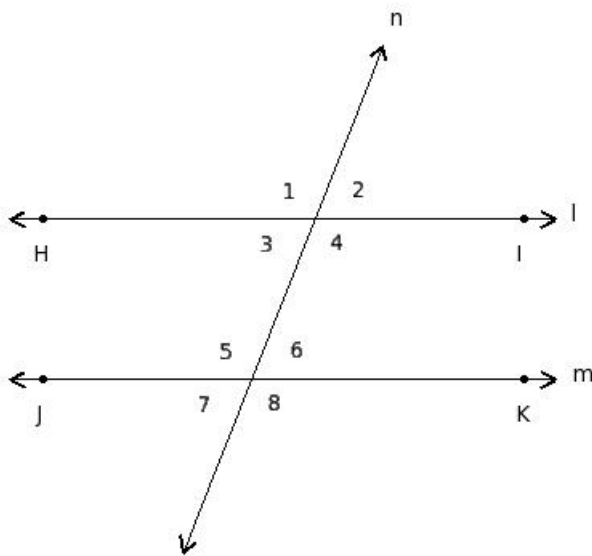
- (i) parallel lines (ii) perpendicular lines (iii) coplanar lines
 (iv) intersecting lines (v) concurrent lines
-

7. The following lines represent



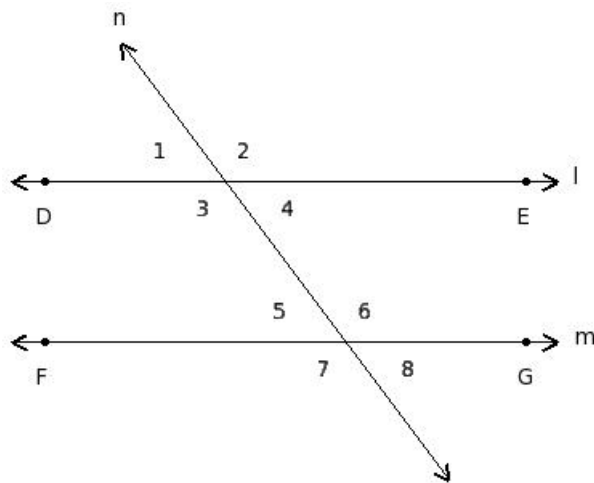
- (i) parallel lines (ii) perpendicular lines (iii) concurrent lines
 (iv) coplanar lines (v) intersecting lines
-

8. Find the adjacent angles in the given figure



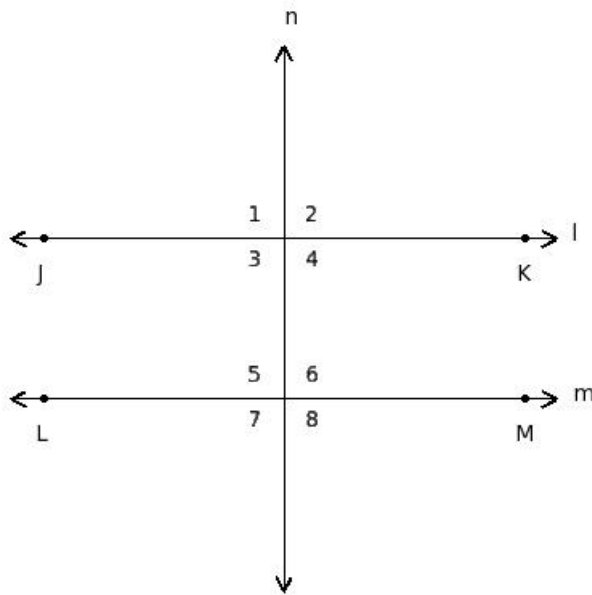
- (i) $\angle 3, \angle 5; \angle 4, \angle 6$
 (ii) $\angle 3, \angle 4, \angle 5, \angle 6$
 (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
 (iv) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$
 (v) $\angle 1, \angle 2; \angle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

9. Find the vertically opposite angles in the given figure



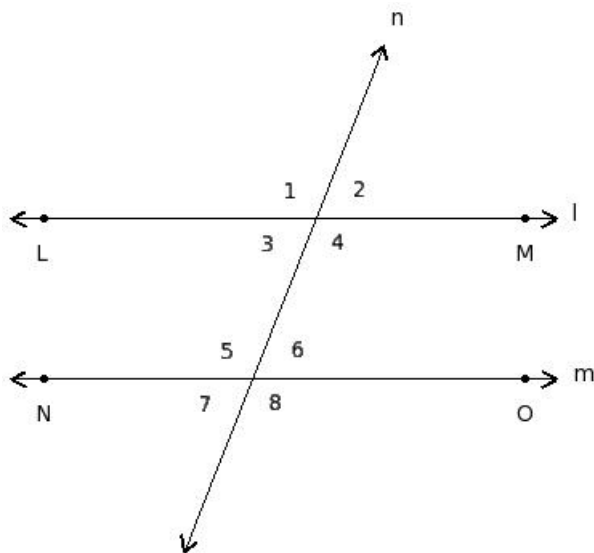
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$
- (ii) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$
- (iii) $\angle 1, \angle 8; \angle 2, \angle 7$
- (iv) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6,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

10. Find the interior angles in the given figure



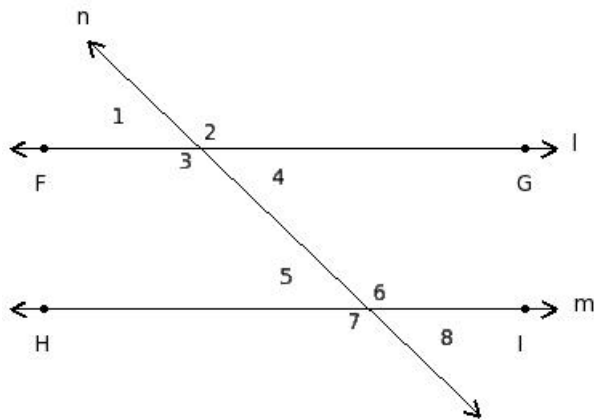
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$
- (ii) $\angle 1, \angle 8; \angle 2, \angle 7$
- (iii) $\angle 1, \angle 2, \angle 7, \angle 8$
- (iv) $\angle 3, \angle 5; \angle 4, \angle 6$
- (v) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$

11. Find the exterior angles in the given figure



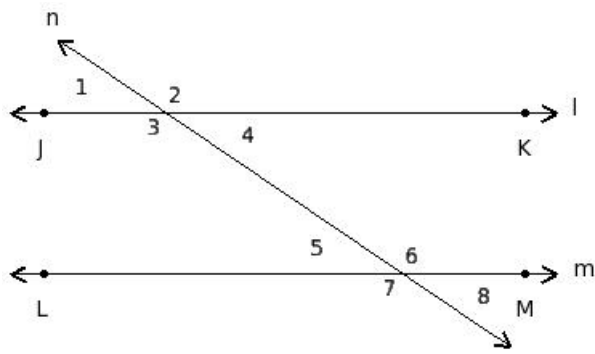
- (i) $\angle 3, \angle 6; \angle 4, \angle 5$
- (ii) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$
- (iii) $\angle 3, \angle 4, \angle 5, \angle 6$
- (iv) $\angle 1, \angle 2, \angle 7,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

12. Find the interior alternate angles in the given figure



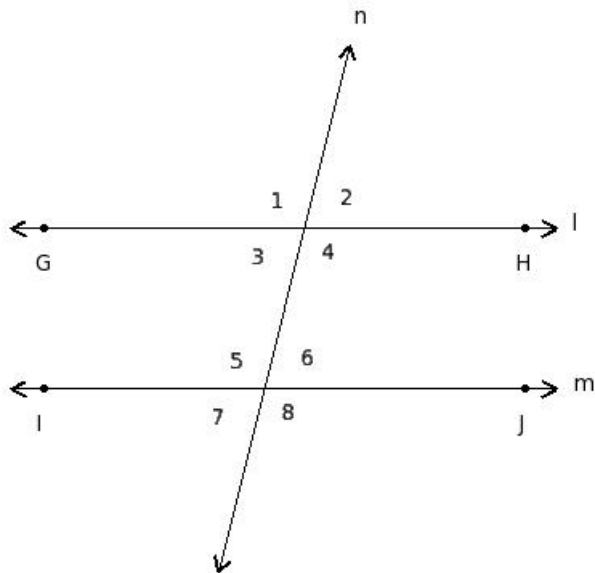
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$
- (ii) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$
- (iii) $\angle 3, \angle 6; \angle 4, \angle 5$
- (iv) $\angle 1, \angle 5; \angle 2,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

13. Find the exterior alternate angles in the given figure



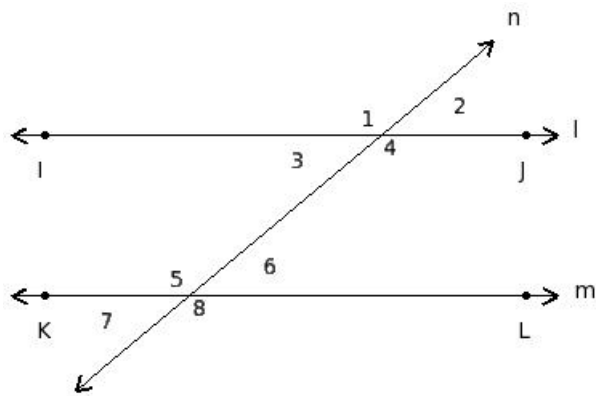
- (i) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
- (ii) $\angle 1, \angle 2, \angle 7, \angle 8$
- (iii) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$
- (iv) $\angle 1, \angle 8; \angle 2, \angle 7$
- (v) $\angle 3, \angle 5; \angle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

14. Find the corresponding angles in the given figure



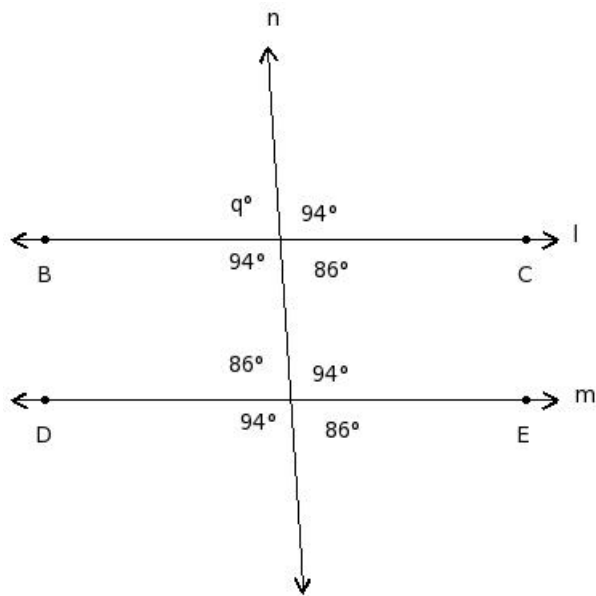
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$
- (ii) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$
- (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle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

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



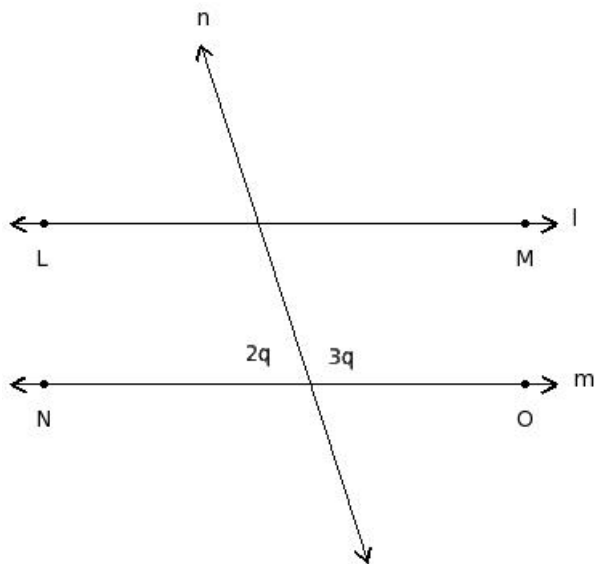
- (i) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$
 (ii) $\angle 3, \angle 4, \angle 5, \angle 6$
 (iii) $\angle 3, \angle 5; \angle 4, \angle 6$
 (iv) $\angle 3, \angle 6; \angle 4, \angle 5$
 (v) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle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

16. Find the value of 'q'



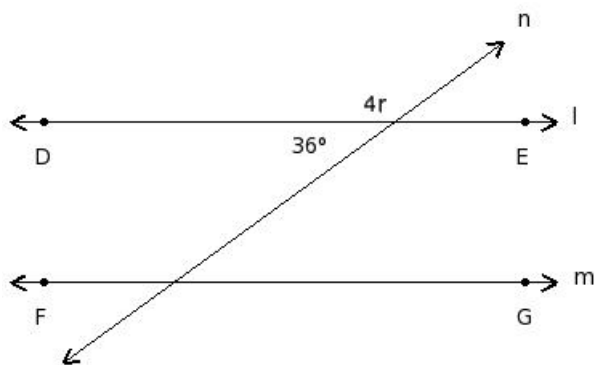
- (i) 91° (ii) 86° (iii) 116° (iv) 101° (v) 96°

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



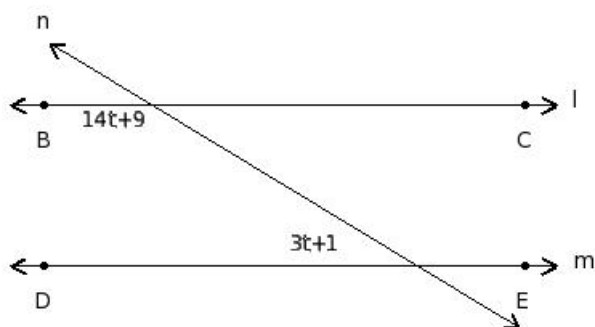
(i) 37 (ii) 35 (iii) 36 (iv) 34 (v) 38

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



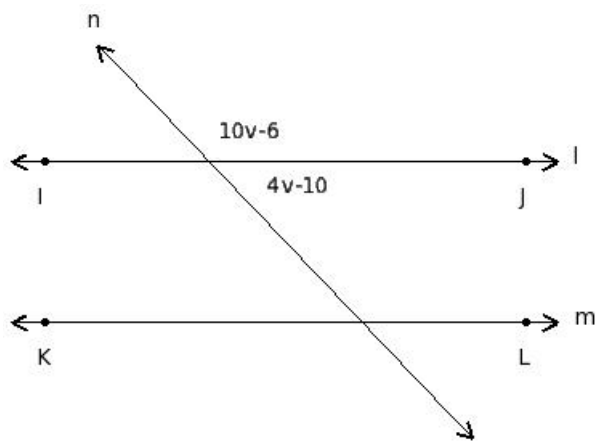
(i) 35 (ii) 38 (iii) 37 (iv) 33 (v) 36

19. In the given figure $l \parallel m$. Find the value of 't'



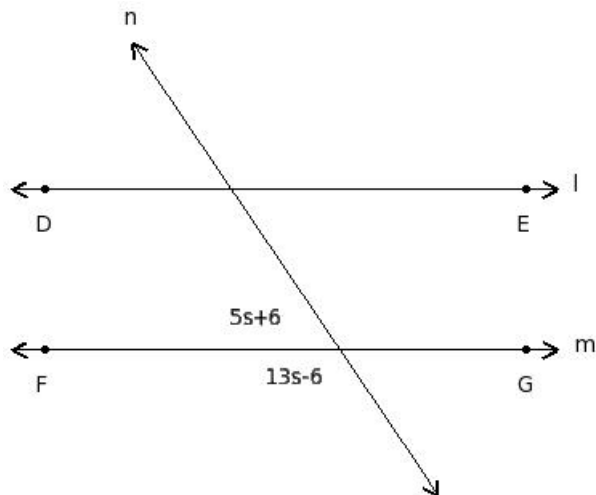
(i) 10 (ii) 13 (iii) 9 (iv) 11 (v) 8

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



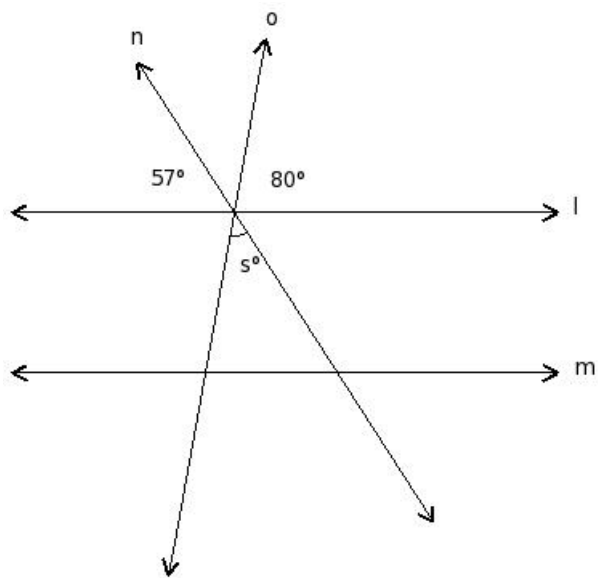
- (i) 17 (ii) 14 (iii) 12 (iv) 13 (v) 15

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



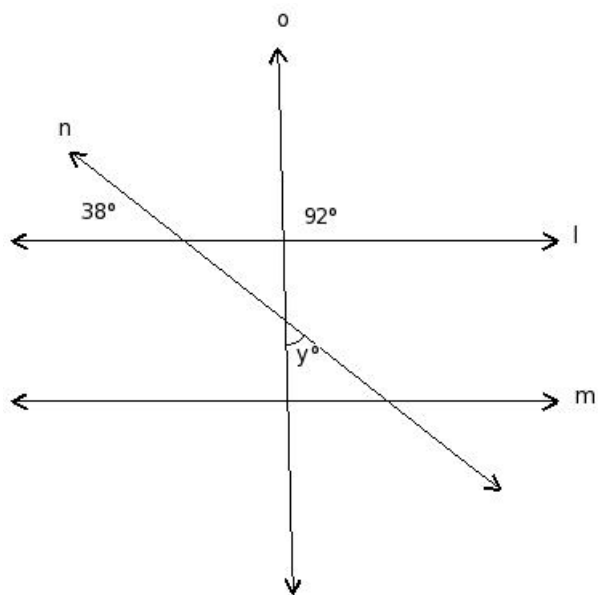
- (i) 9 (ii) 11 (iii) 13 (iv) 10 (v) 8

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



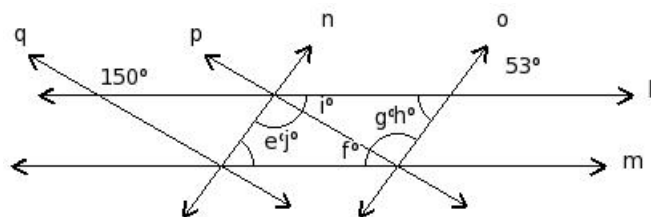
- (i) 58° (ii) 48° (iii) 43° (iv) 53° (v) 73°

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



- (i) 80° (ii) 60° (iii) 65° (iv) 55° (v) 50°

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



- (i) $97^\circ, 30^\circ, 53^\circ, 53^\circ, 97^\circ, 30^\circ$
 - (ii) $53^\circ, 30^\circ, 97^\circ, 53^\circ, 30^\circ, 97^\circ$
 - (iii) $97^\circ, 30^\circ, 53^\circ, 30^\circ, 97^\circ, 53^\circ$
 - (iv) $53^\circ, 97^\circ, 53^\circ, 30^\circ, 97^\circ, 30^\circ$
 - (v) $97^\circ, 53^\circ, 30^\circ, 53^\circ, 97^\circ, 30^\circ$
-

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

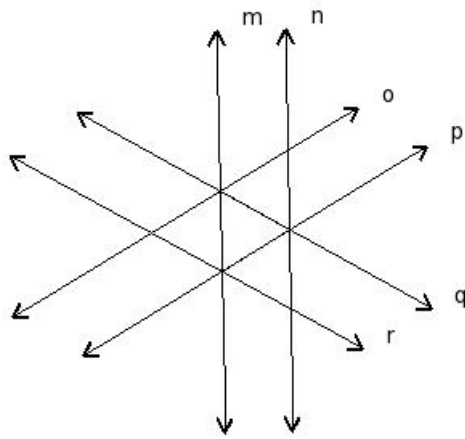
- a) They are adjacent angles
 - b) They are on either side of the transversal
 - c) They are in the same side of the transversal
 - d) They are not adjacent angles
 - e) One is interior angle and the other is exterior
 - f) Both are interior angles
- (i) {c,d} (ii) {c,b,d} (iii) {b,d,f} (iv) {e,a,f} (v) {a,b}
-

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

- a) Both are interior angles
 - b) One is interior angle and the other is exterior angle
 - c) They are adjacent angles
 - d) They are not adjacent angles
 - e) They are on either side of the transversal
 - f) They are on the same side of the transversal
- (i) {e,a,f} (ii) {c,d} (iii) {a,b} (iv) {c,b,d} (v) {b,d,f}
-

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

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



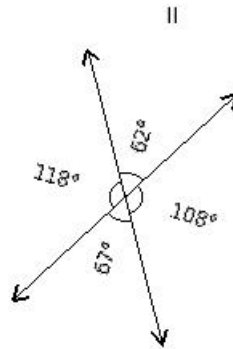
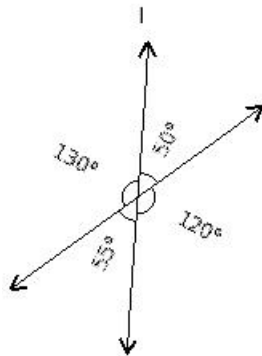
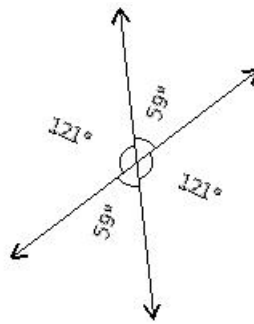
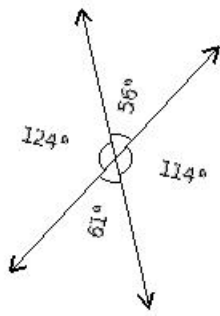
- (i) {b,c,e} (ii) {b,a} (iii) {a,d,e,f} (iv) {c,d} (v) {b,f,a}

28. Which of the following are true with respect to lines t, u, v, w where $t \parallel u, u \perp v, v \perp w$?

- a) $t \perp w$
- b) $t \parallel v$
- c) $u \parallel w$
- d) $v \parallel w$
- e) $t \parallel w$

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

29. Which of the given figures is correct?

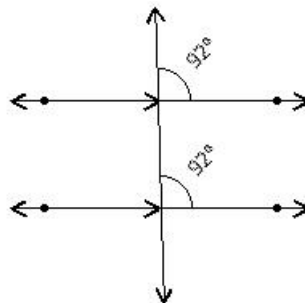
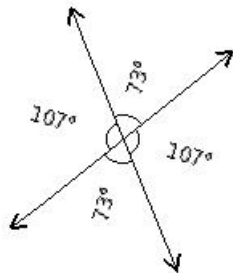


III

IV

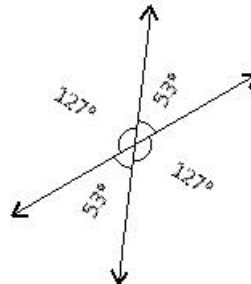
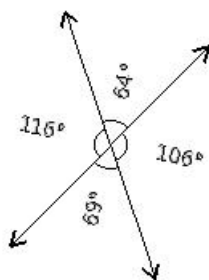
(i) IV (ii) II (iii) III (iv) I

30. Which of the given figures is wrong?



I

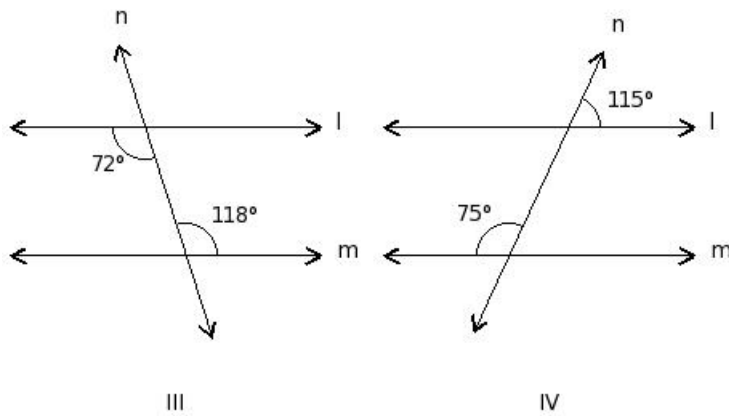
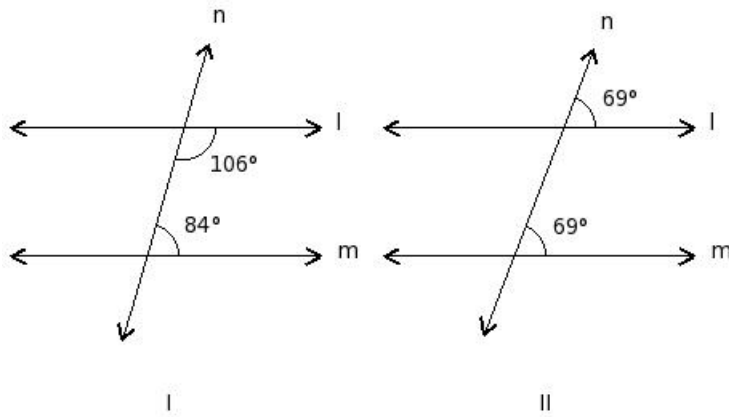
II



III

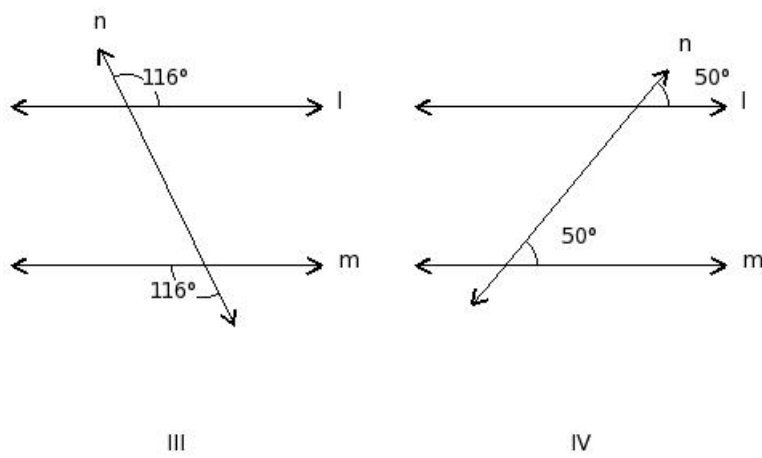
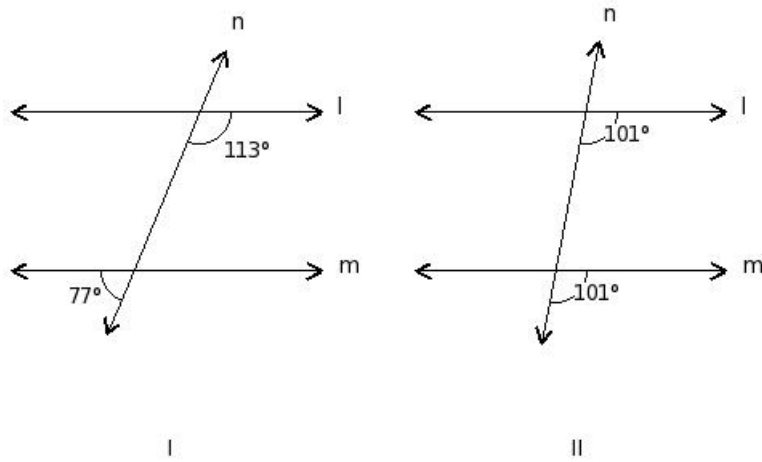
IV

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

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

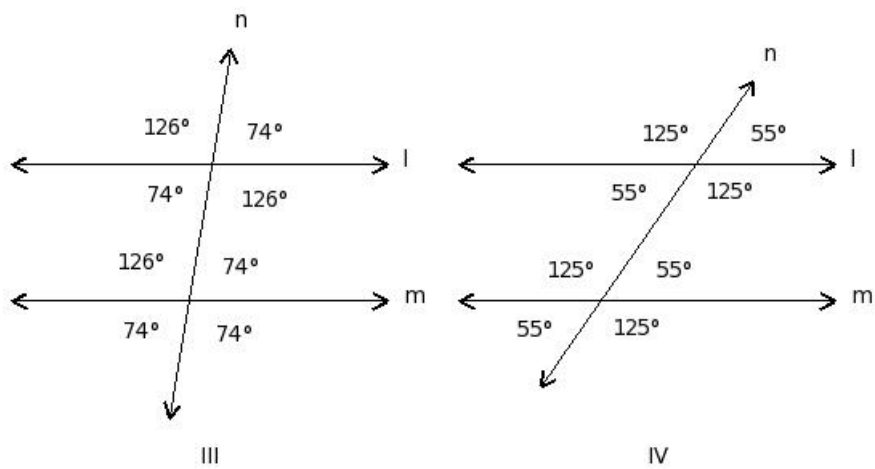
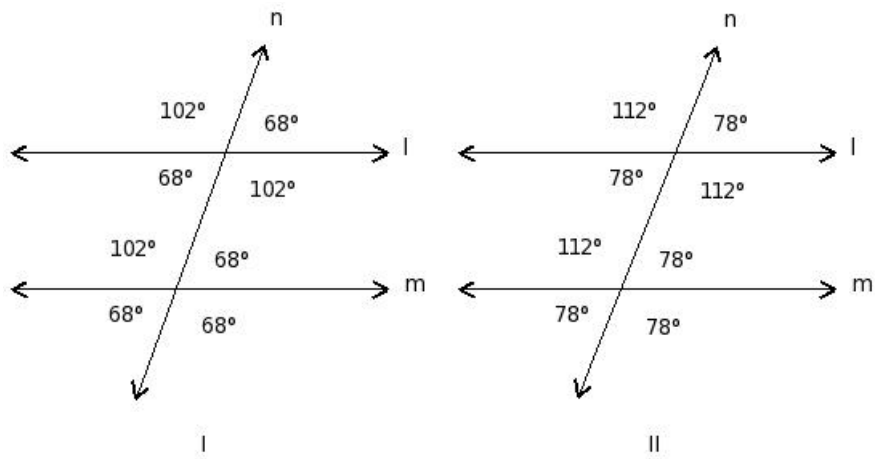
(i) IV (ii) I (iii) III (iv) II

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



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

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



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

Assignment Key

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