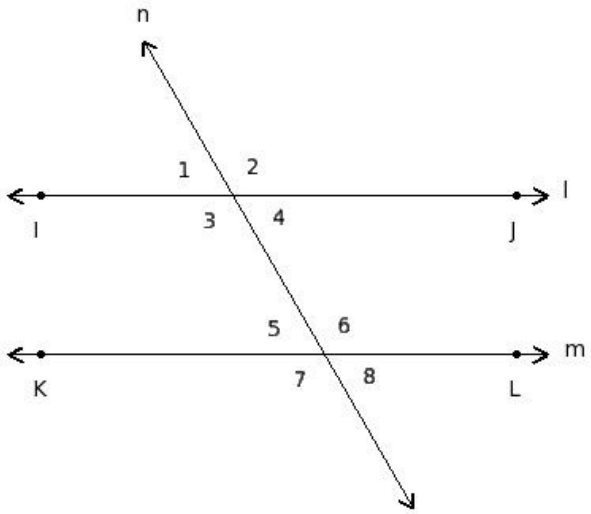
EduSahara™ Assignment

Name : Parallel Lines and Transversal

Chapter : Lines and Angles

Grade : CBSE Grade VII

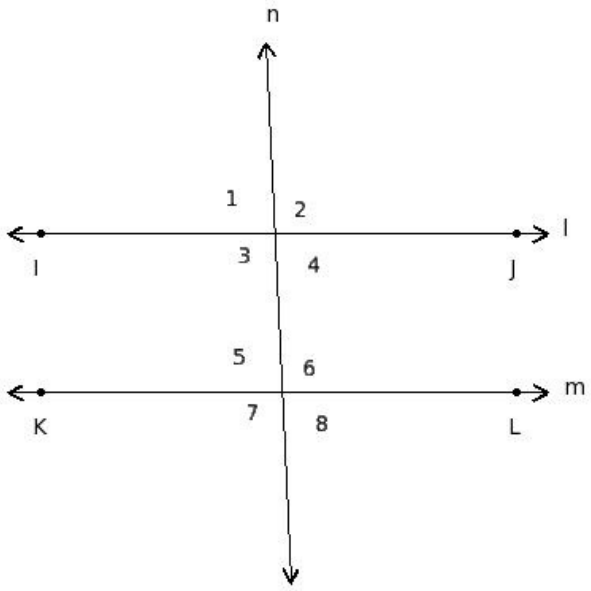
1. Find the adjacent angles in the given figure



(i) ∠3 , ∠6 ; ∠4 , ∠5 (ii) ∠1 , ∠2 ; ∠2 , ∠4 ; ∠4 , ∠3 ; ∠3 , ∠1 ; ∠5 , ∠6 ; ∠6 , ∠8 ; ∠8 , ∠7 ; ∠7 , ∠5

(iii) ∠1 , ∠2 , ∠7 , ∠8 (iv) ∠1 , ∠5 ; ∠2 , ∠6 ; ∠3 , ∠7 ; ∠4 , ∠8 (v) ∠1 , ∠8 ; ∠2 , ∠7

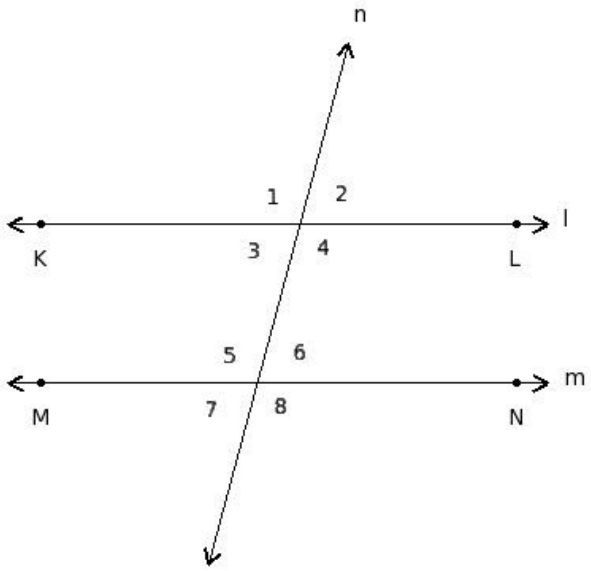
2. Find the vertically opposite angles in the given figure



(i) ∠1 , ∠4 ; ∠2 , ∠3 ; ∠5 , ∠8 ; ∠6 , ∠7 (ii) ∠1 , ∠8 ; ∠2 , ∠7 (iii) ∠3 , ∠4 , ∠5 , ∠6

(iv) ∠3 , ∠5 ; ∠4 , ∠6 (v) ∠1 , ∠2 , ∠7 , ∠8

3. Find the interior angles in the given figure

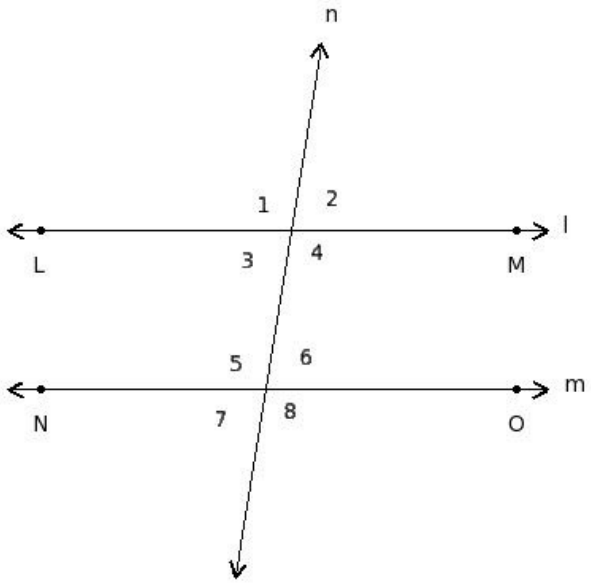


(i) ∠1 , ∠2 ; ∠2 , ∠4 ; ∠4 , ∠3 ; ∠3 , ∠1 ; ∠5 , ∠6 ; ∠6 , ∠8 ; ∠8 , ∠7 ; ∠7 , ∠5

(ii) ∠1 , ∠4 ; ∠2 , ∠3 ; ∠5 , ∠8 ; ∠6 , ∠7 (iii) ∠3 , ∠4 , ∠5 , ∠6 (iv) ∠1 , ∠5 ; ∠2 , ∠6 ; ∠3 , ∠7 ; ∠4 , ∠8

(v) ∠3 , ∠5 ; ∠4 , ∠6

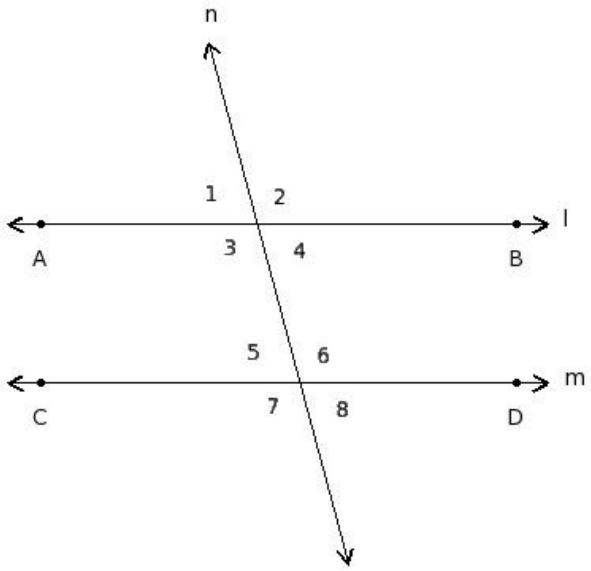
4. Find the exterior angles in the given figure



(i) ∠1 , ∠2 , ∠7 , ∠8 (ii) ∠1 , ∠2 ; ∠2 , ∠4 ; ∠4 , ∠3 ; ∠3 , ∠1 ; ∠5 , ∠6 ; ∠6 , ∠8 ; ∠8 , ∠7 ; ∠7 , ∠5

(iii) ∠3 , ∠6 ; ∠4 , ∠5 (iv) ∠3 , ∠4 , ∠5 , ∠6 (v) ∠1 , ∠8 ; ∠2 , ∠7

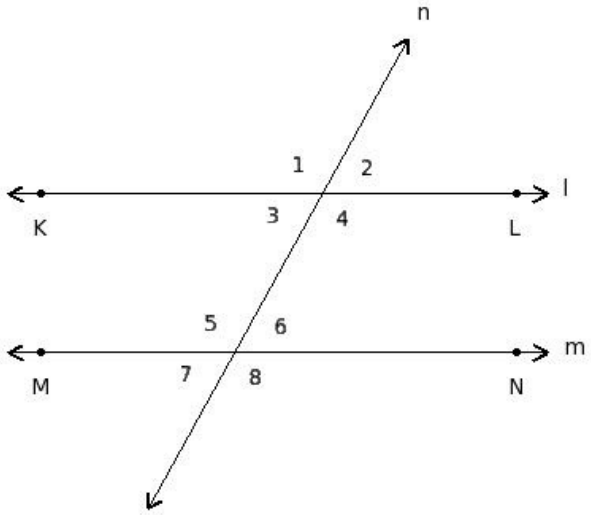
5. Find the interior alternate angles in the given figure



(i) ∠3 , ∠6 ; ∠4 , ∠5 (ii) ∠1 , ∠5 ; ∠2 , ∠6 ; ∠3 , ∠7 ; ∠4 , ∠8 (iii) ∠1 , ∠4 ; ∠2 , ∠3 ; ∠5 , ∠8 ; ∠6 , ∠7

(iv) ∠3 , ∠4 , ∠5 , ∠6 (v) ∠1 , ∠2 ; ∠2 , ∠4 ; ∠4 , ∠3 ; ∠3 , ∠1 ; ∠5 , ∠6 ; ∠6 , ∠8 ; ∠8 , ∠7 ; ∠7 , ∠5

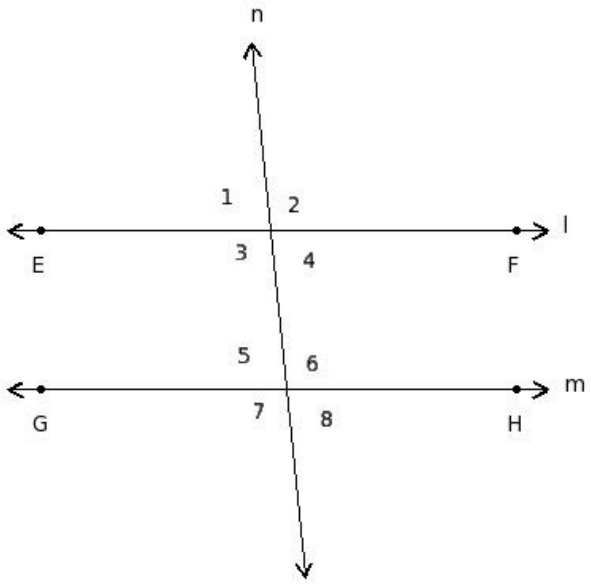
6. Find the exterior alternate angles in the given figure



(i) ∠3 , ∠5 ; ∠4 , ∠6 (ii) ∠1 , ∠8 ; ∠2 , ∠7 (iii) ∠1 , ∠2 , ∠7 , ∠8

(iv) ∠1 , ∠4 ; ∠2 , ∠3 ; ∠5 , ∠8 ; ∠6 , ∠7 (v) ∠1 , ∠5 ; ∠2 , ∠6 ; ∠3 , ∠7 ; ∠4 , ∠8

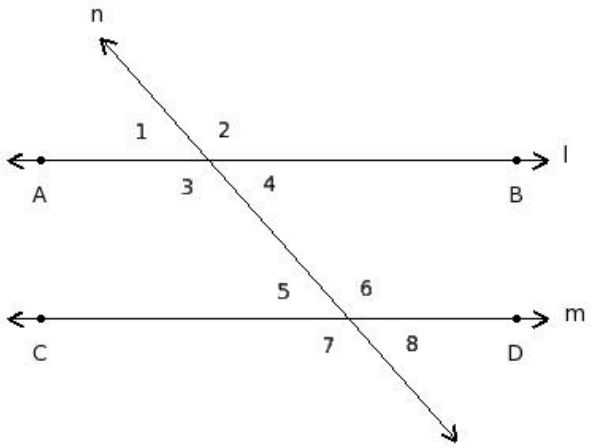
7. Find the corresponding angles in the given figure



(i) ∠3 , ∠4 , ∠5 , ∠6 (ii) ∠1 , ∠4 ; ∠2 , ∠3 ; ∠5 , ∠8 ; ∠6 , ∠7 (iii) ∠1 , ∠5 ; ∠2 , ∠6 ; ∠3 , ∠7 ; ∠4 , ∠8

(iv) ∠3 , ∠6 ; ∠4 , ∠5 (v) ∠1 , ∠8 ; ∠2 , ∠7

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

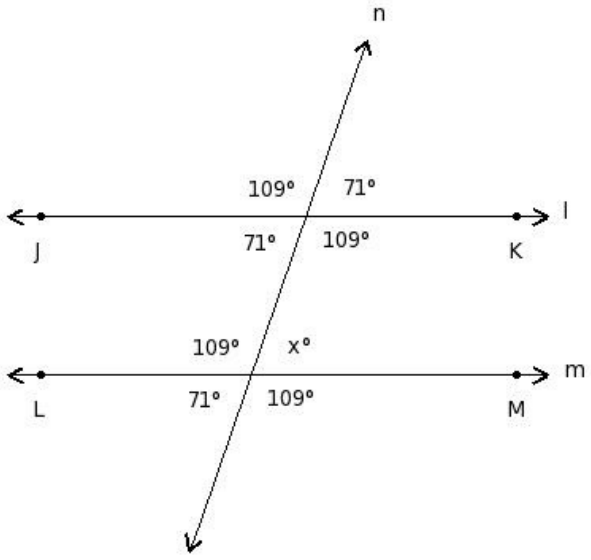


(i) ∠1 , ∠8 ; ∠2 , ∠7 (ii) ∠1 , ∠5 ; ∠2 , ∠6 ; ∠3 , ∠7 ; ∠4 , ∠8

(iii) ∠1 , ∠2 ; ∠2 , ∠4 ; ∠4 , ∠3 ; ∠3 , ∠1 ; ∠5 , ∠6 ; ∠6 , ∠8 ; ∠8 , ∠7 ; ∠7 , ∠5 (iv) ∠3 , ∠4 , ∠5 , ∠6

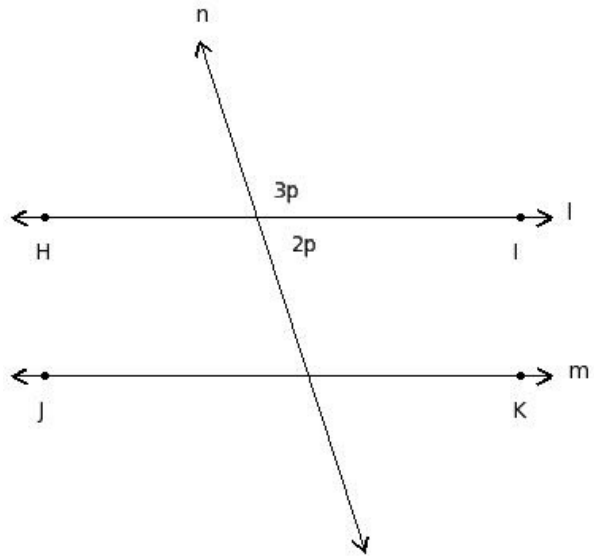
(v) ∠3 , ∠5 ; ∠4 , ∠6

9. Find the value of 'x'



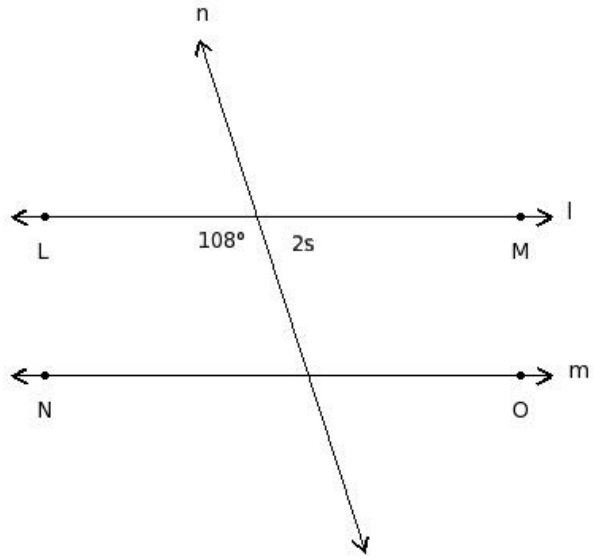
(i) 86° (ii) 81° (iii) 71° (iv) 101° (v) 76°

10. In the given figure l ‖ m. Find the value of 'p'



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

11. In the given figure l ‖ m. Find the value of 's'



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

12. Multiple lines drawn on a plane are called

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

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

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

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

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

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

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

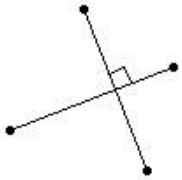
16. Two lines meeting at a point and making an angle of 90° at the meeting point are called

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

17. The following lines represent

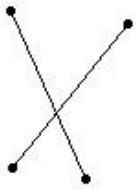
(i) perpendicular lines (ii) concurrent lines (iii) coplanar lines (iv) intersecting lines (v) parallel lines

18. The following lines represent



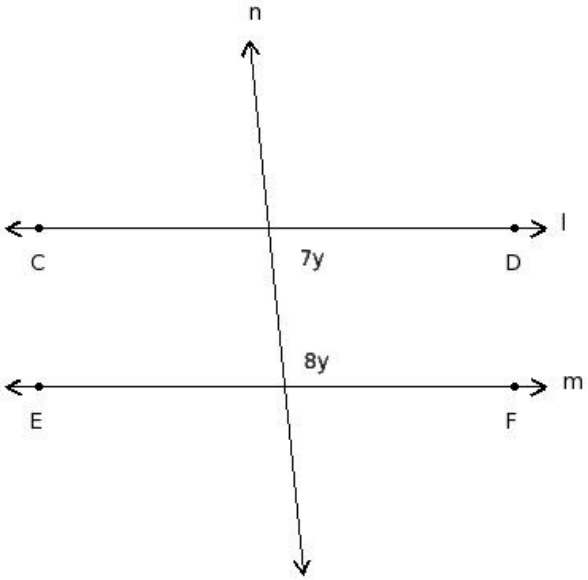
(i) parallel lines (ii) intersecting lines (iii) coplanar lines (iv) perpendicular lines (v) concurrent lines

19. The following lines represent



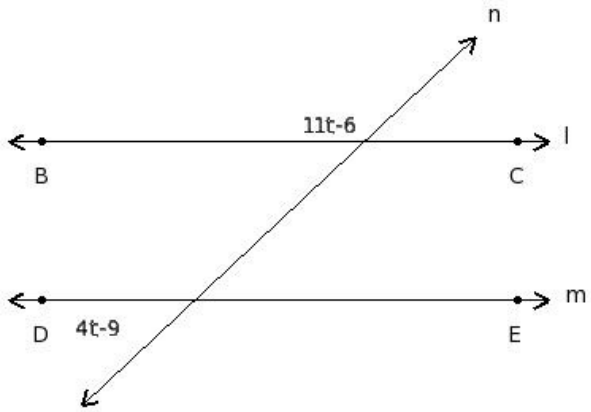
(i) parallel lines (ii) intersecting lines (iii) coplanar lines (iv) concurrent lines (v) perpendicular lines

20. In the given figure l ∥ m. Find the value of 'y'



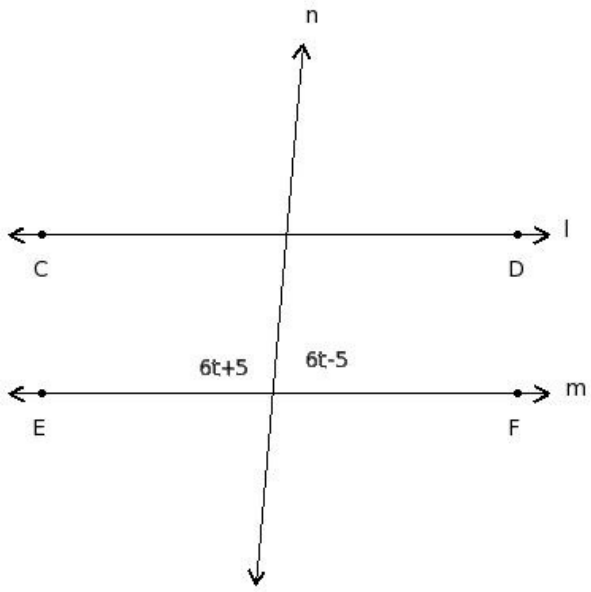
(i) 15 (ii) 9 (iii) 12 (iv) 11 (v) 13

21. In the given figure l ∥ m. Find the value of 't'



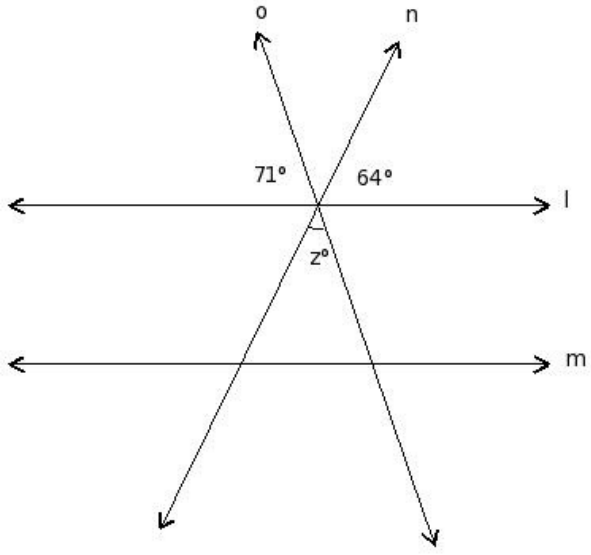
(i) 12 (ii) 14 (iii) 10 (iv) 13 (v) 16

22. In the given figure l ∥ m. Find the value of 't'



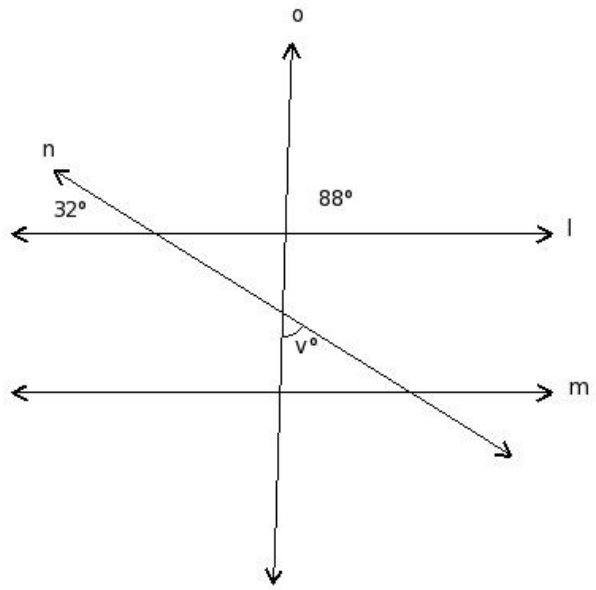
(i) 15 (ii) 14 (iii) 13 (iv) 16 (v) 18

23. In the given figure l ∥ m. Find the value of 'z'



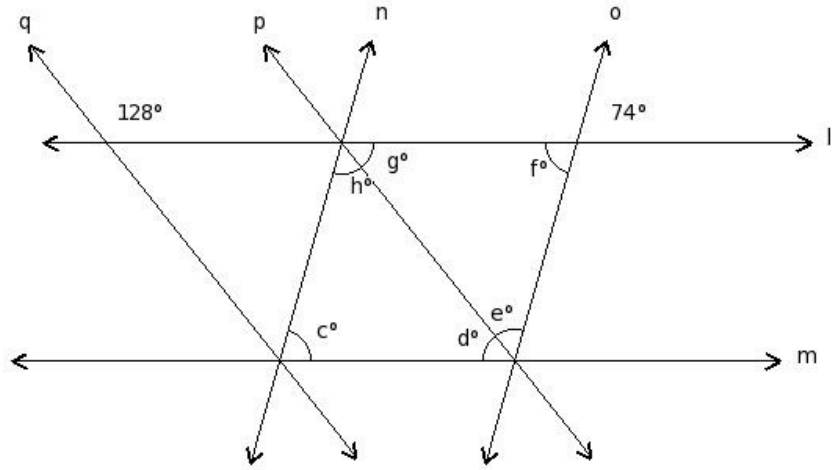
(i) 50° (ii) 60° (iii) 55° (iv) 75° (v) 45°

24. In the given figurel ∥ m. Find the value of 'v'



(i) 60° (ii) 65° (iii) 90° (iv) 75° (v) 70°

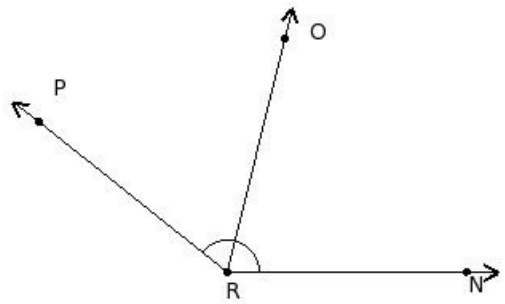
25. In the given figure, l ∥ m and n ∥ o and p ∥ q. Find the values of {c,d,e,f,g,h}



(i) 52°,54°,52°,74°,74°,54° (ii) 52°,74°,54°,54°,74°,52° (iii) 54°,74°,54°,52°,52°,74°

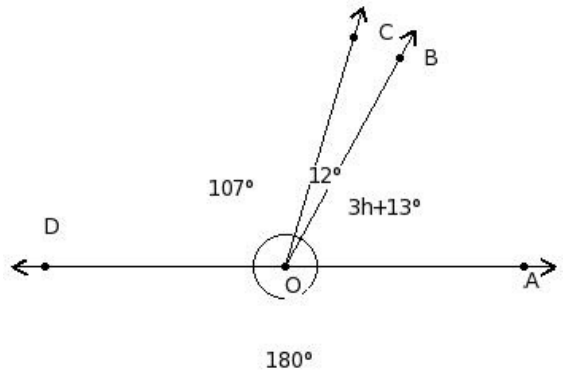
(iv) 52°,74°,74°,54°,52°,54° (v) 74°,52°,54°,74°,52°,54°

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



(i) ∠NRO , ∠ORP (ii) ∠PRN , ∠RRS (iii) ∠RRS , ∠ORP (iv) ∠QRR , ∠ORP (v) ∠ORP , ∠QRR

27. Find the value of h in the figure below



(i) 15 (ii) 13 (iii) 18 (iv) 16 (v) 17

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

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

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

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

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

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

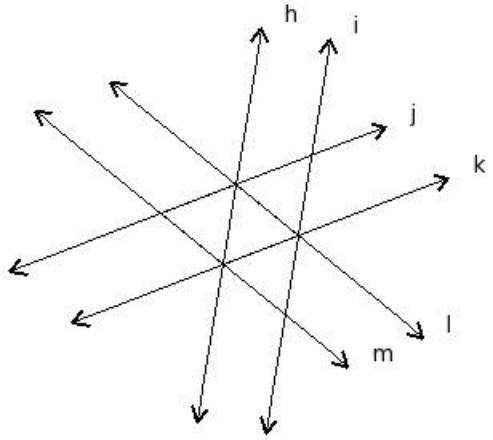
30. Which of the following are true?

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

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

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

a) l is the transversal of j & k
b) h is the transversal of j & l
c) k is the transversal of h & i
d) m is the transversal of j & h
e) h ∥ i
f) h ∥ k



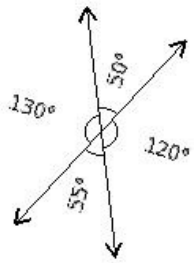
(i) {b,a} (ii) {b,f,d} (iii) {a,c,d,e} (iv) {f,c} (v) {b,e,a}

32. Which of the following are true with respect to lines d , e , f , g where d ∥ e , e ⊥ f , f ⊥ g?

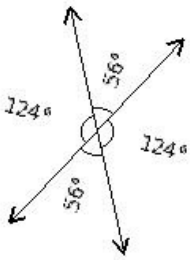
a) d ∥ g
b) f ∥ g
c) e ∥ g
d) d ∥ f
e) d ⊥ g

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

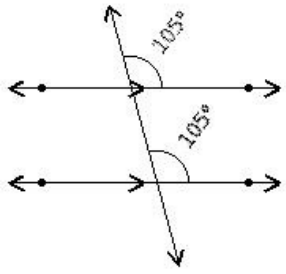
33. Which of the given figures is wrong?



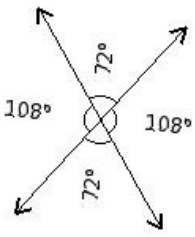
I



II



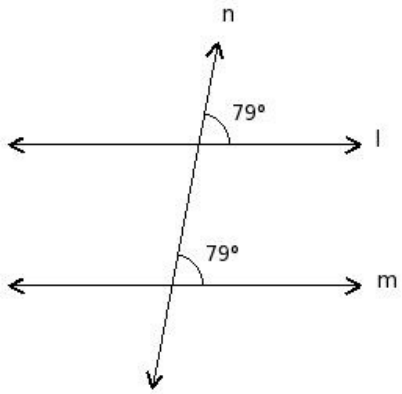
III



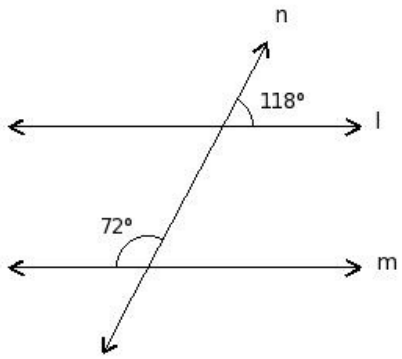
IV

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

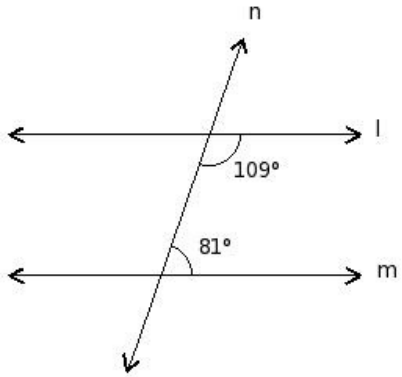
34. In which of the figures given bellow, l ‖ m?



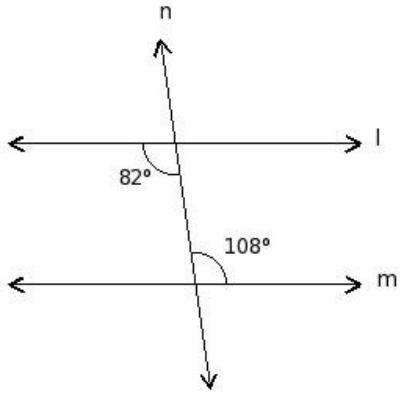
I



II



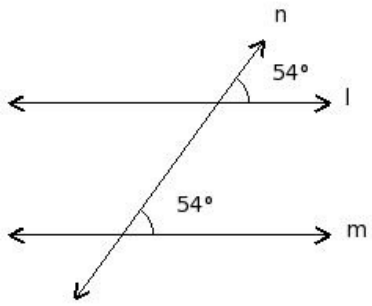
III



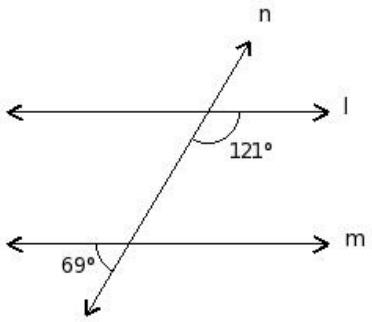
IV

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

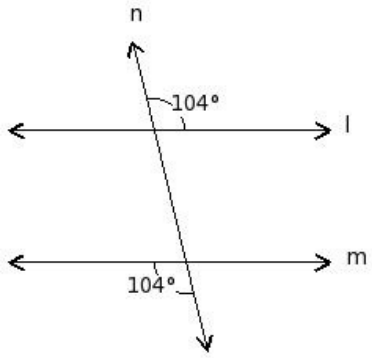
35. In which of the figures given bellow, l ∦ m(not parallel)?



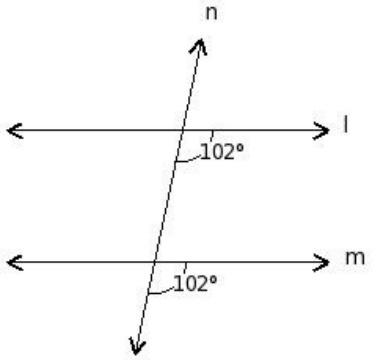
I



II



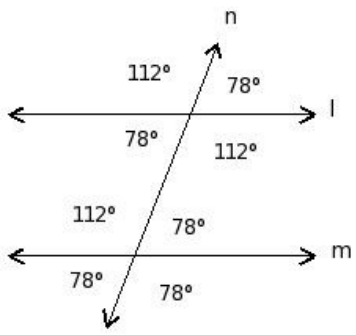
III



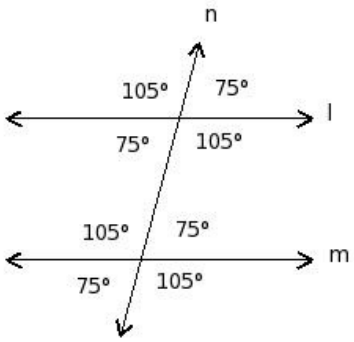
IV

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

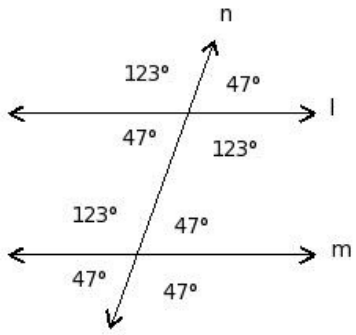
36. If l ‖ m, which of the given figures is correct?



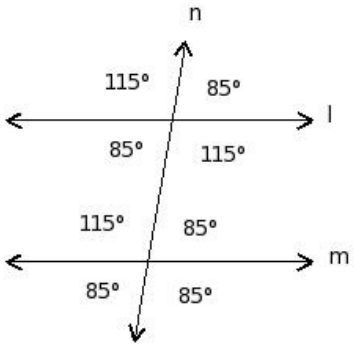
I



II



III



IV

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

Assignment Key

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