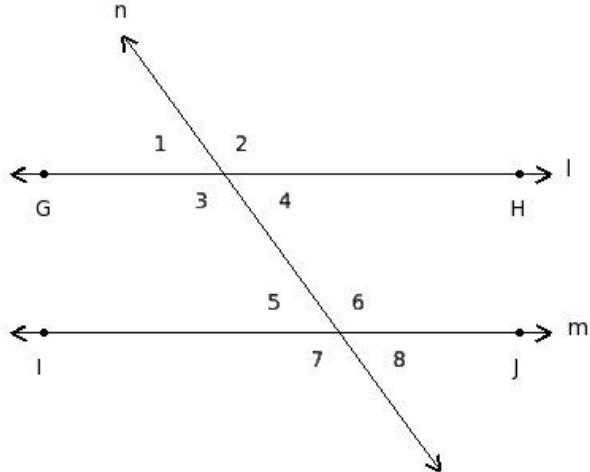


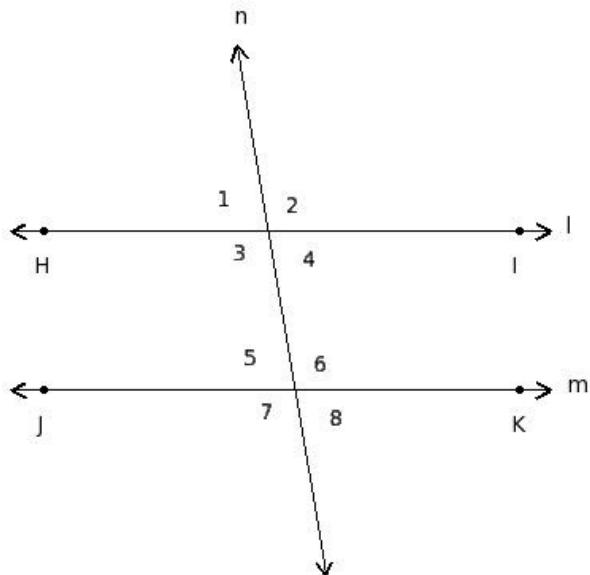


1. Find the adjacent angles in the given figure



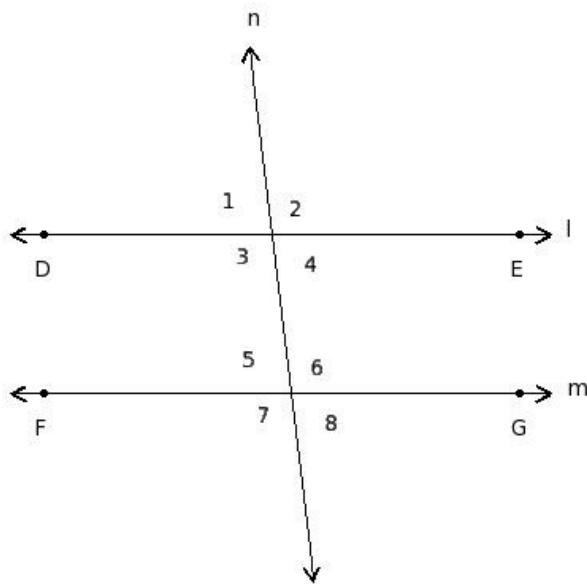
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$ (ii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$ (iii) $\angle 1, \angle 2, \angle 7, \angle 8$
(iv) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle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

2. Find the vertically opposite angles in the given figure



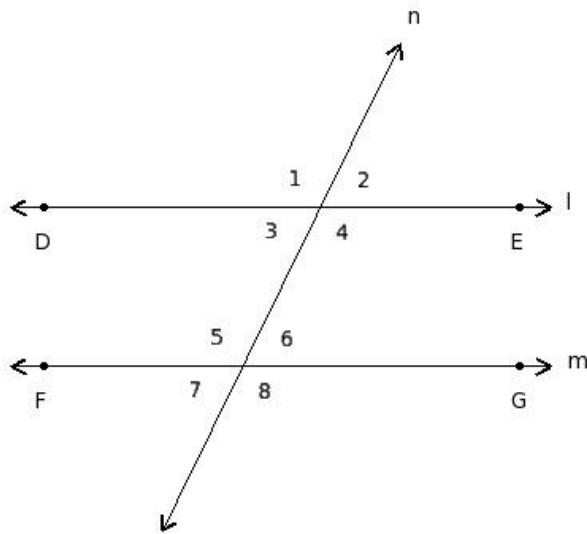
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$ (ii) $\angle 1, \angle 8; \angle 2, \angle 7$ (iii) $\angle 1, \angle 2, \angle 7, \angle 8$ (iv) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
(v) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6,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

3. Find the interior angles in the given figure



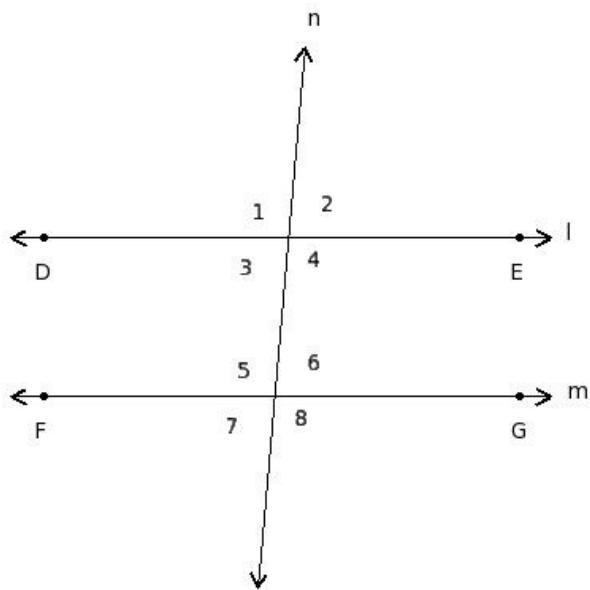
- (i) $\angle 3, \angle 6; \angle 4, \angle 5$ (ii) $\angle 1, \angle 8; \angle 2, \angle 7$ (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
- (iv) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle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

4. Find the exterior angles in the given figure



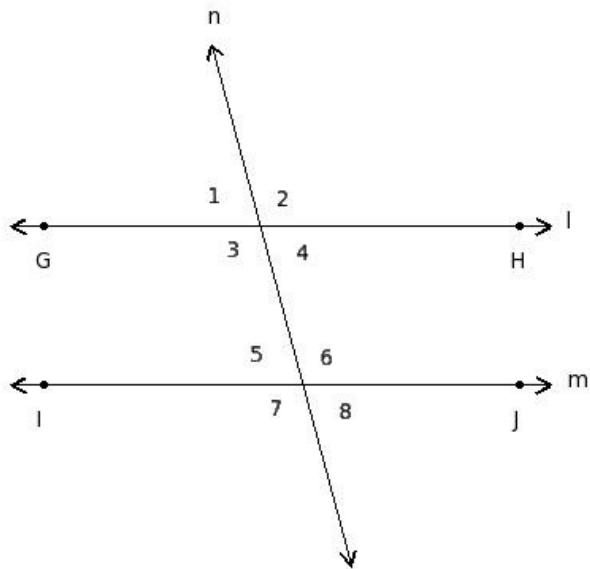
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$ (ii) $\angle 1, \angle 2, \angle 7, \angle 8$ (iii) $\angle 3, \angle 5; \angle 4, \angle 6$ (iv) $\angle 1, \angle 8; \angle 2, \angle 7$
- (v) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$

5. Find the interior alternate angles in the given figure



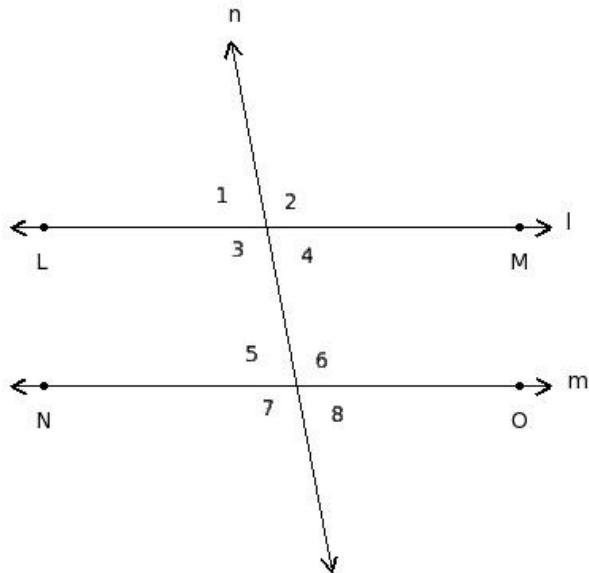
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$ (ii) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$
- (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$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

6. Find the exterior alternate angles in the given figure



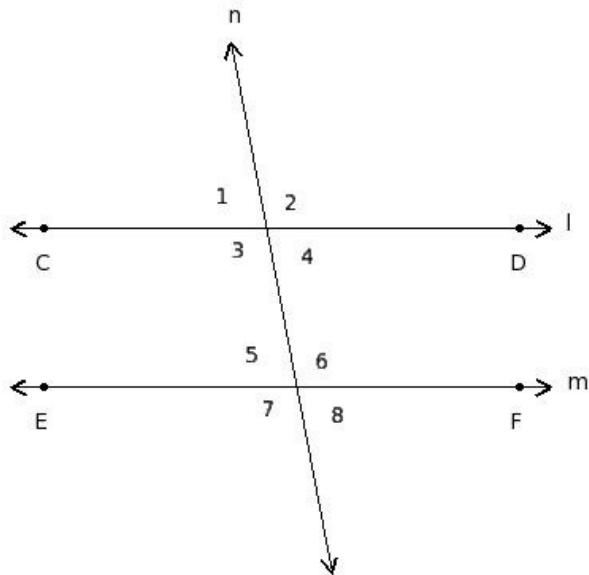
- (i) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$ (ii) $\angle 1, \angle 2, \angle 7, \angle 8$
- (iii) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$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

7. Find the corresponding angles in the given figure



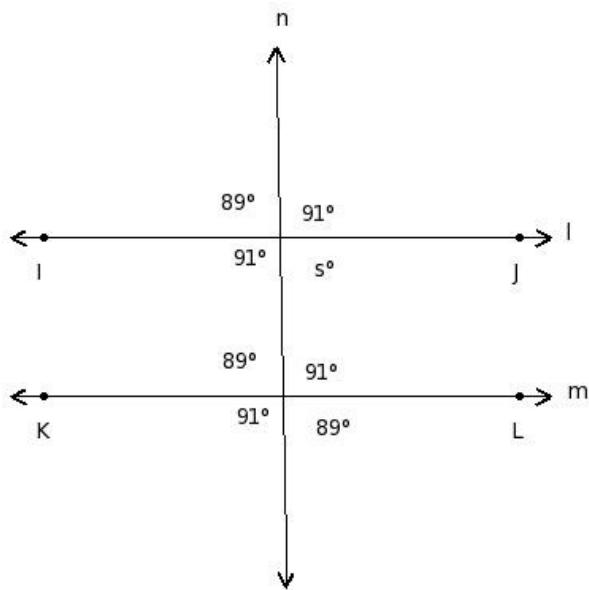
- (i) $\angle 3, \angle 5; \angle 4, \angle 6$ (ii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
- (iii) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$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

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



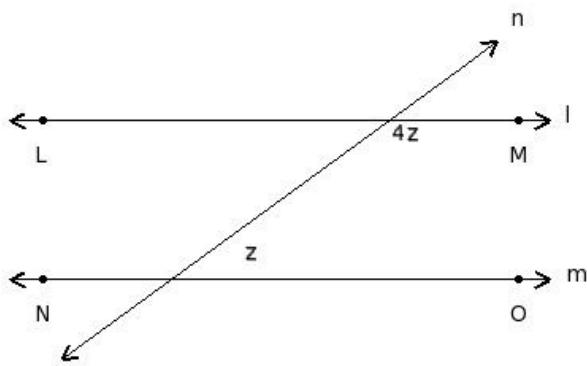
- (i) $\angle 3, \angle 4, \angle 5, \angle 6$ (ii) $\angle 3, \angle 5; \angle 4, \angle 6$
- (iii) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle 6, \angle 8; \angle 8, \angle 7; \angle 7, \angle 5$
- (iv) $\angle 1, \angle 4; \angle 2, \angle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

9. Find the value of 's'



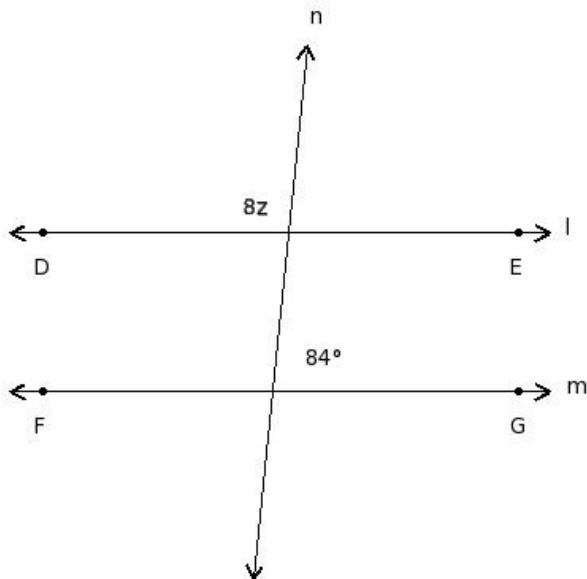
- (i) 94° (ii) 99° (iii) 104° (iv) 89° (v) 119°

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



- (i) 39 (ii) 35 (iii) 33 (iv) 36 (v) 37

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



- (i) 10 (ii) 13 (iii) 11 (iv) 14 (v) 12

12. Multiple lines drawn on a plane are called

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

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

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

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

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

15. 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

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

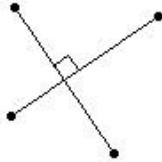
- (i) coplanar lines (ii) perpendicular lines (iii) intersecting lines (iv) parallel lines (v) concurrent lines

17. The following lines represent



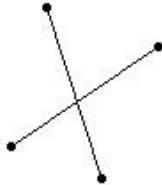
- (i) coplanar lines (ii) intersecting lines (iii) concurrent lines (iv) perpendicular lines (v) parallel lines

18. The following lines represent



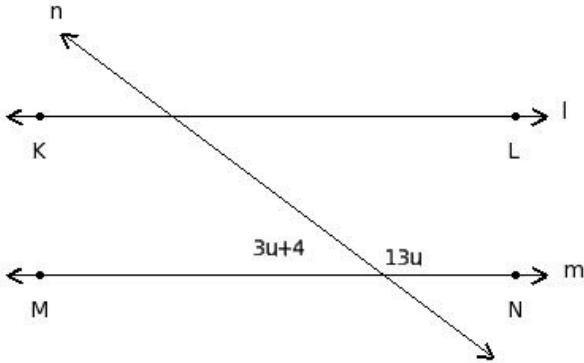
- (i) coplanar lines (ii) perpendicular lines (iii) intersecting lines (iv) concurrent lines (v) parallel lines

19. The following lines represent



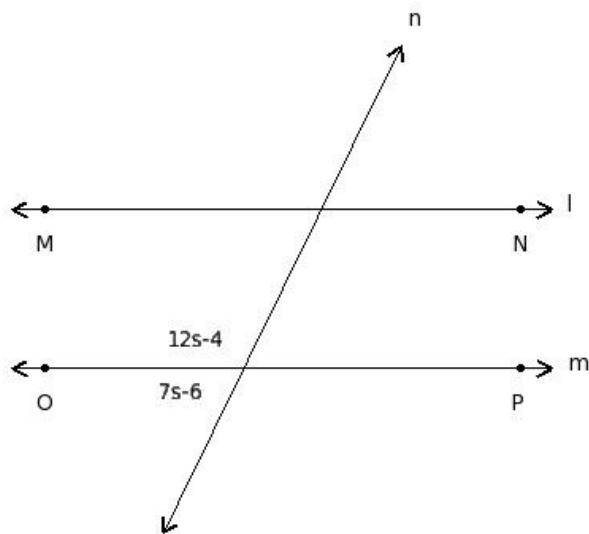
- (i) coplanar lines (ii) intersecting lines (iii) concurrent lines (iv) perpendicular lines (v) parallel lines

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



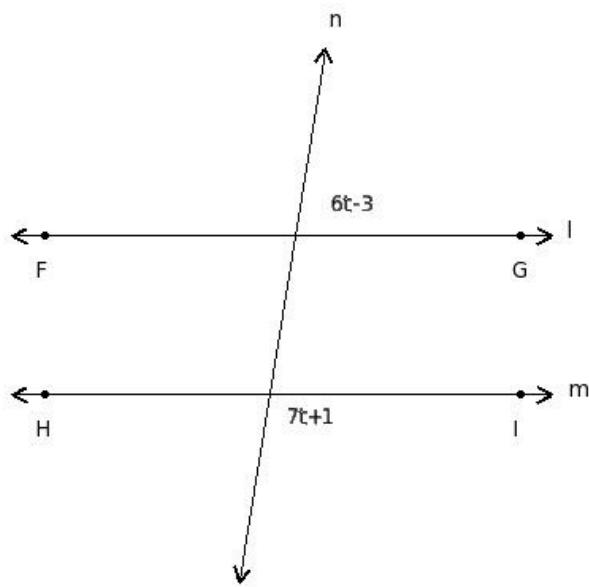
- (i) 8 (ii) 12 (iii) 10 (iv) 11 (v) 13

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



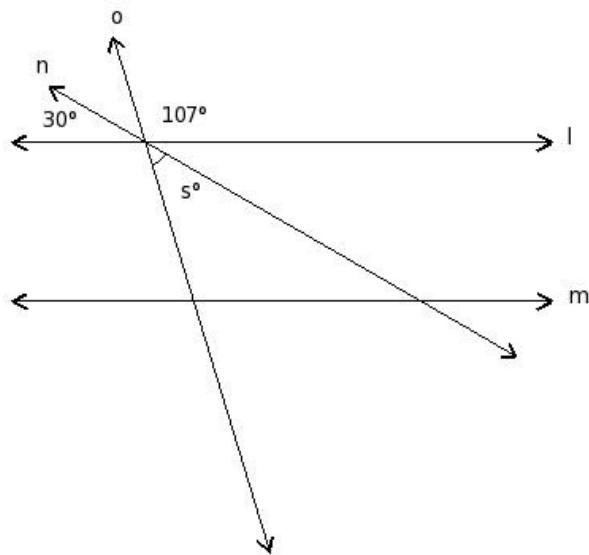
- (i) 11 (ii) 9 (iii) 12 (iv) 10 (v) 8

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



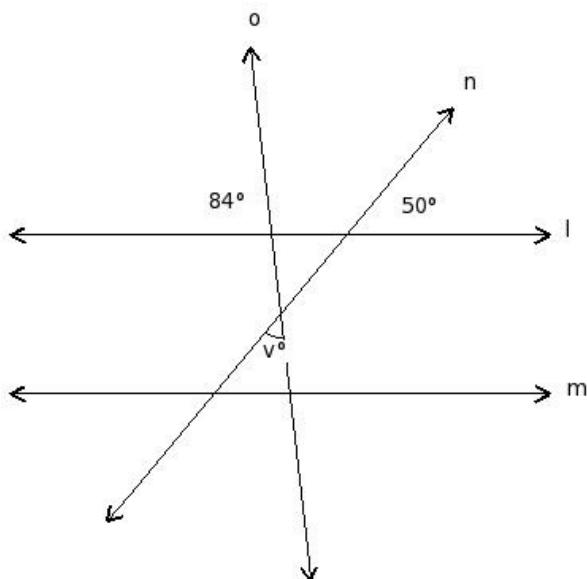
- (i) 15 (ii) 12 (iii) 16 (iv) 13 (v) 14

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



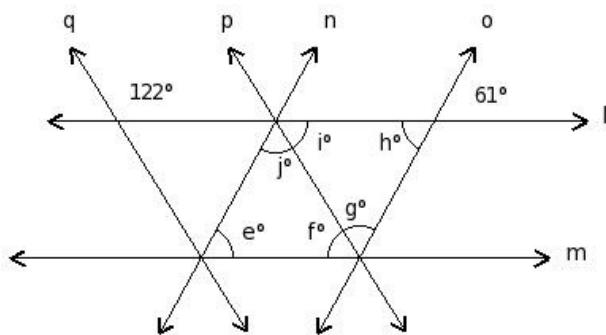
- (i) 53° (ii) 58° (iii) 48° (iv) 73° (v) 43°

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



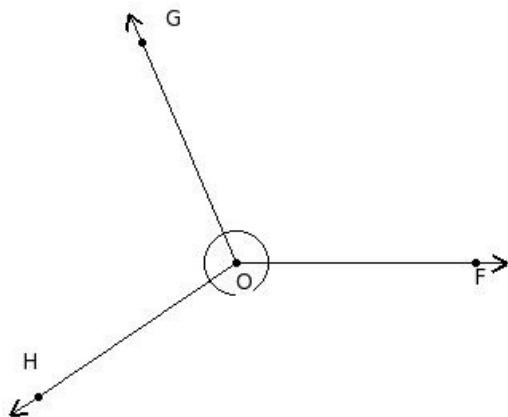
- (i) 76° (ii) 61° (iii) 46° (iv) 51° (v) 56°

25. 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}



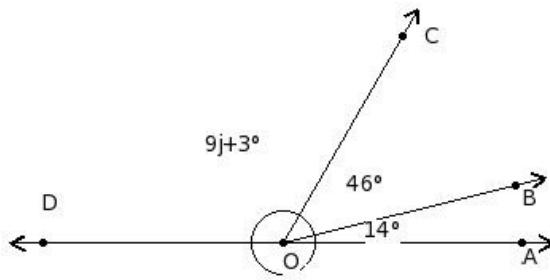
- (i) $61^\circ, 58^\circ, 58^\circ, 61^\circ, 61^\circ, 61^\circ$ (ii) $61^\circ, 61^\circ, 58^\circ, 61^\circ, 61^\circ, 58^\circ$ (iii) $61^\circ, 58^\circ, 61^\circ, 61^\circ, 58^\circ, 61^\circ$

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



- (i) $\angle JOK, \angle GOH$ (ii) $\angle GOH, \angle IOJ$ (iii) $\angle HOI, \angle JOK$ (iv) $\angle FOG, \angle GOH$ (v) $\angle IOJ, \angle GOH$

27. Find the value of j in the figure below



180°

- (i) 15 (ii) 13 (iii) 10 (iv) 14 (v) 12

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

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

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

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

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

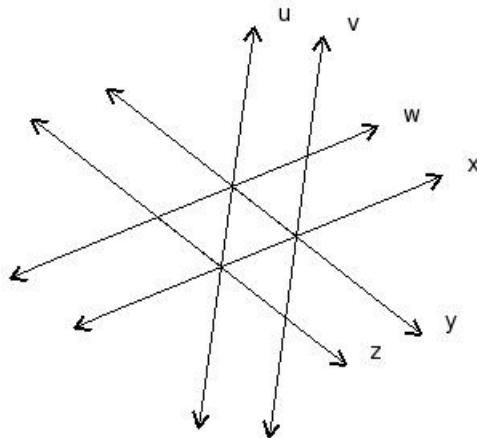
- (i) {c,a} (ii) {e,b} (iii) {e,a,b} (iv) {f,c,d} (v) {a,b,d}

30. Which of the following are true?

- a) If $k \perp l$ and $k \perp m$, then $l \perp m$
 - b) If $k \parallel l$ and $l \parallel m$, then $k \parallel m$
 - c) If $k \perp l$ and $l \perp m$, then $k \perp m$
 - d) If two lines are parallel to the same line, then they are parallel to each other
 - e) If two lines are parallel to the same line, then they are perpendicular to each other
- (i) {b,d} (ii) {c,d,b} (iii) {e,a,b} (iv) {c,d} (v) {a,b}

31. In the given figure, u , v , w , x , y , z are lines in a plane. By looking at the figure, which of the following are true?

- a) $u \parallel x$
- b) z is the transversal of w & u
- c) $u \parallel v$
- d) u is the transversal of w & y
- e) y is the transversal of w & x
- f) x is the transversal of u & v



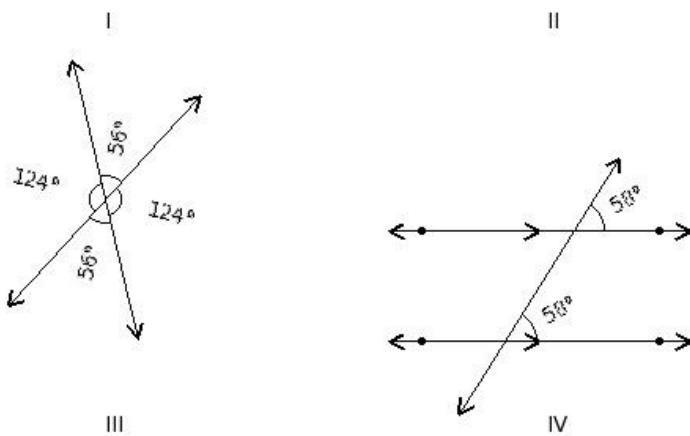
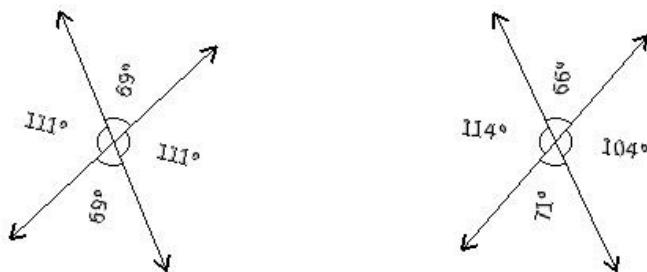
- (i) {d,c} (ii) {a,f,b} (iii) {b,c,e,f} (iv) {a,d,e} (v) {a,b}

32. Which of the following are true with respect to lines n , o , p , q where $n \parallel o$, $o \perp p$, $p \perp q$?

- a) $n \perp q$
- b) $p \parallel q$
- c) $n \parallel q$
- d) $o \parallel q$
- e) $n \parallel p$

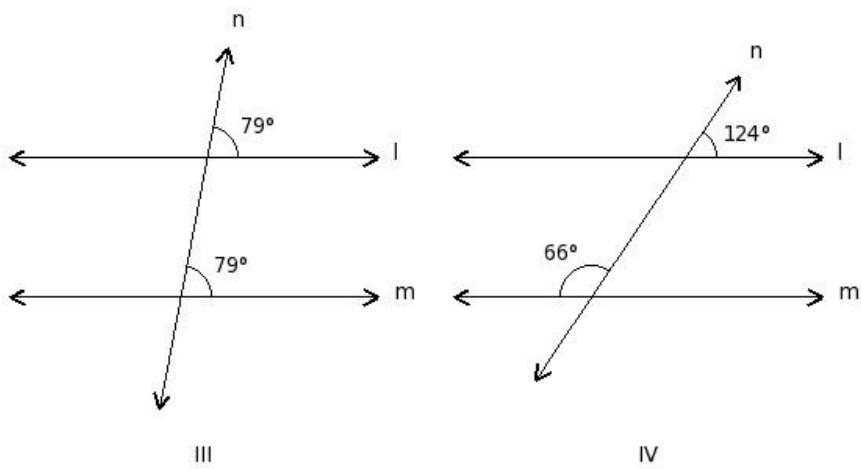
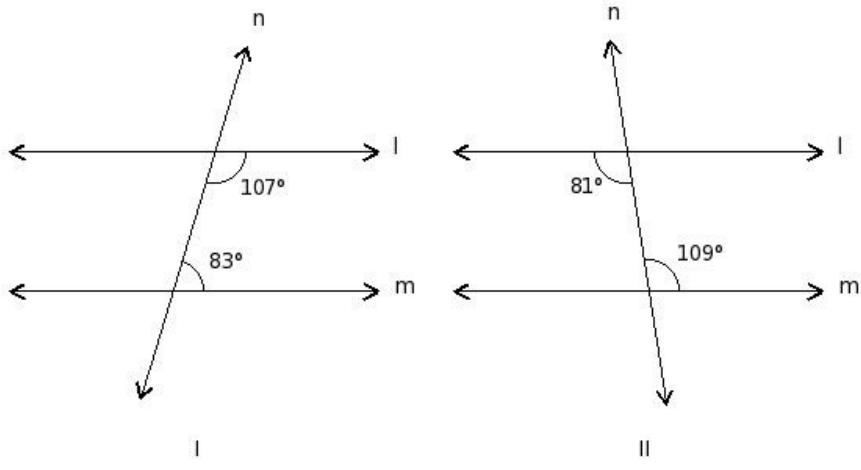
- (i) {e,a,c} (ii) {b,d} (iii) {a,c} (iv) {b,d,c} (v) {c,d}

33. Which of the given figures is wrong?



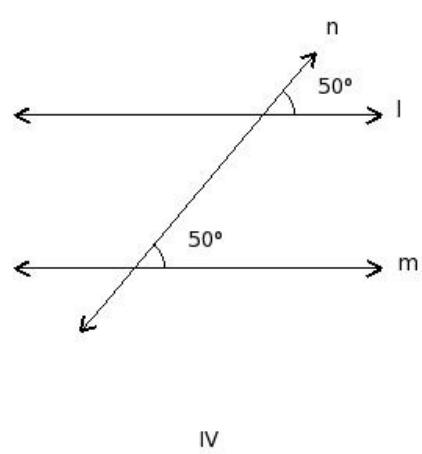
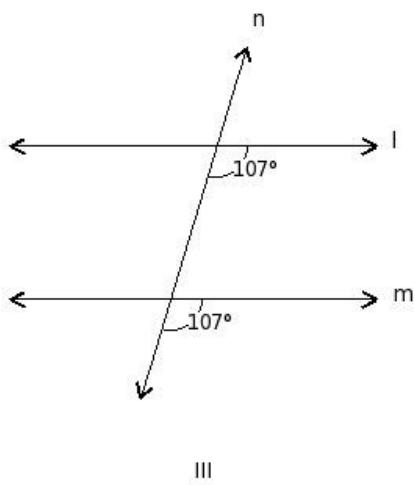
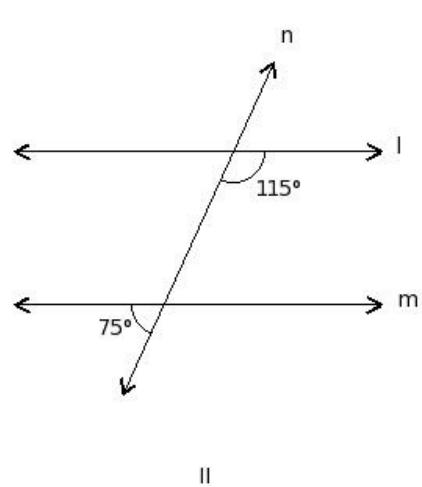
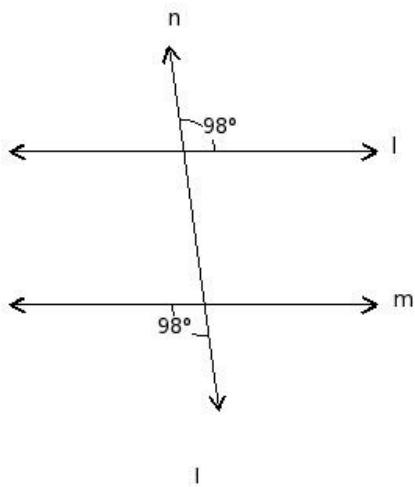
- (i) I (ii) II (iii) III (iv) IV

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



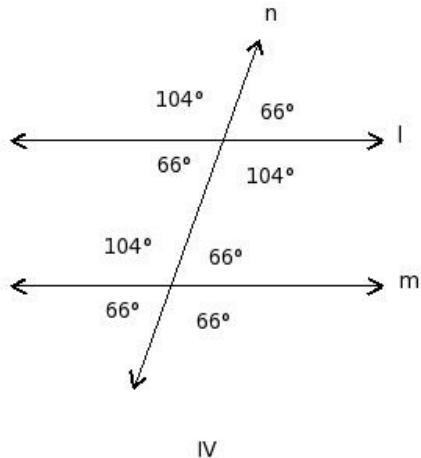
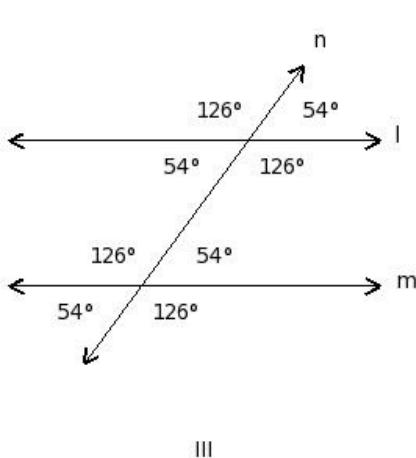
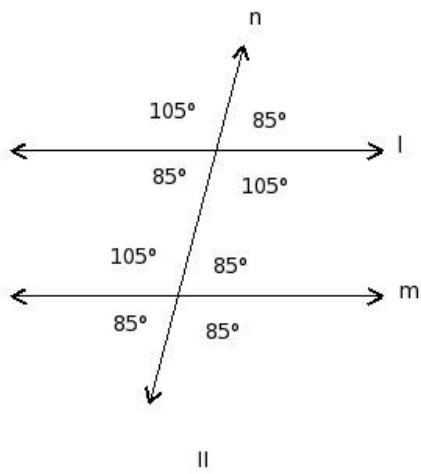
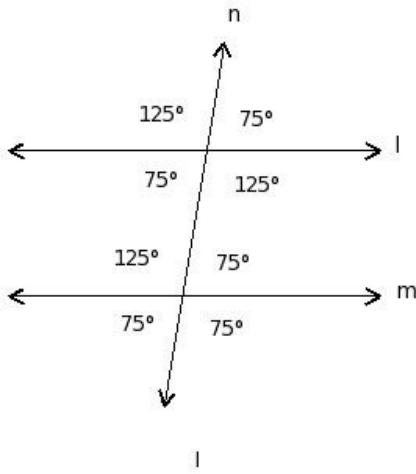
- (i) II (ii) I (iii) III (iv) IV

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



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

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



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

Assignment Key

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