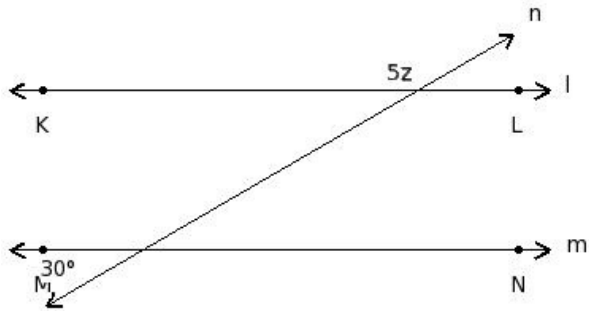


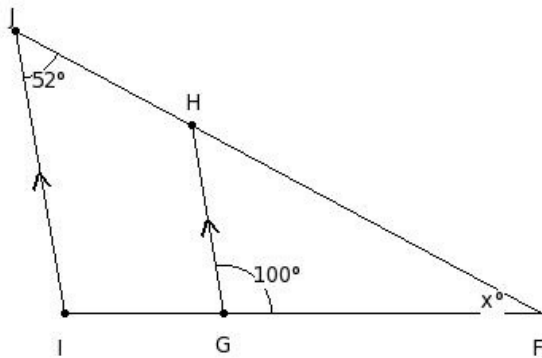


1. In the given figure  $l \parallel m$ . Find the value of 'z'



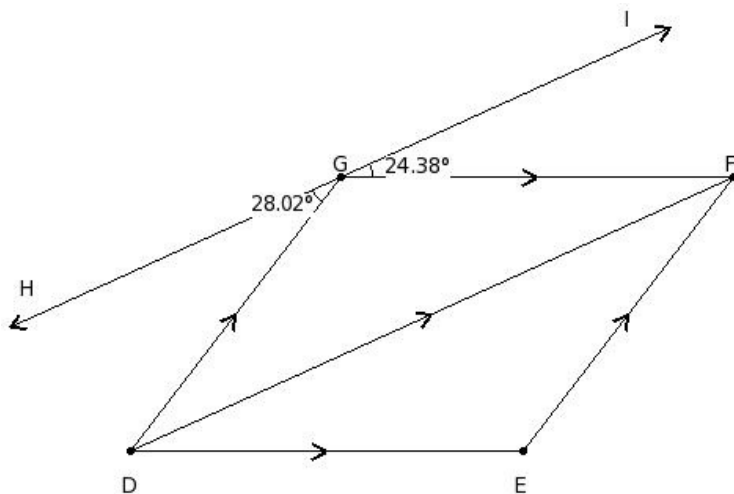
- (i) 31 (ii) 29 (iii) 32 (iv) 27 (v) 30

2. In the given figure, it is given that  $HG \parallel JI$ ,  $\angle HJI = 52^\circ$  and  $\angle HGF = 100^\circ$ . Find the value of x.



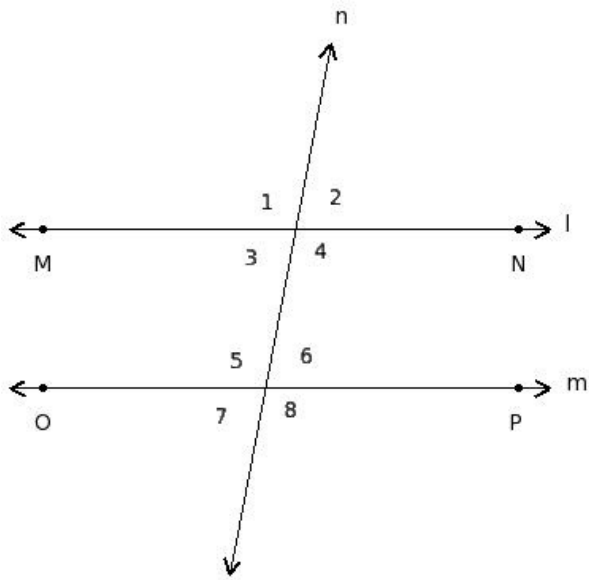
- (i)  $x=29^\circ$  (ii)  $x=30^\circ$  (iii)  $x=28^\circ$  (iv)  $x=26^\circ$  (v)  $x=27^\circ$

3. In the adjoining figure, DEFG is a parallelogram and HI is such that  $\overline{HI} \parallel \overline{DF}$ . If  $\angle DGH = 28.02^\circ$  and  $\angle FGI = 24.38^\circ$ , find the measure of  $\angle FGD$ .



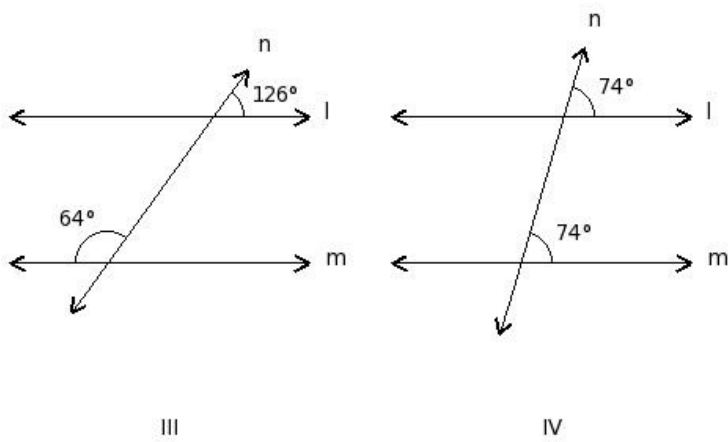
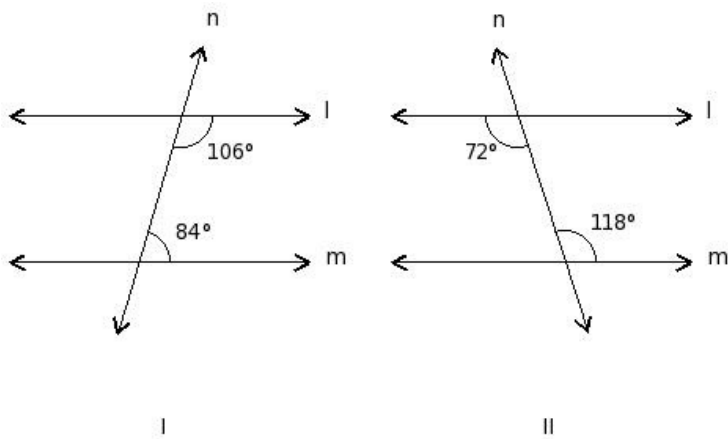
- (i)  $129.60^\circ$  (ii)  $126.60^\circ$  (iii)  $128.60^\circ$  (iv)  $127.60^\circ$  (v)  $125.60^\circ$

4. Find the exterior alternate angles in the given figure



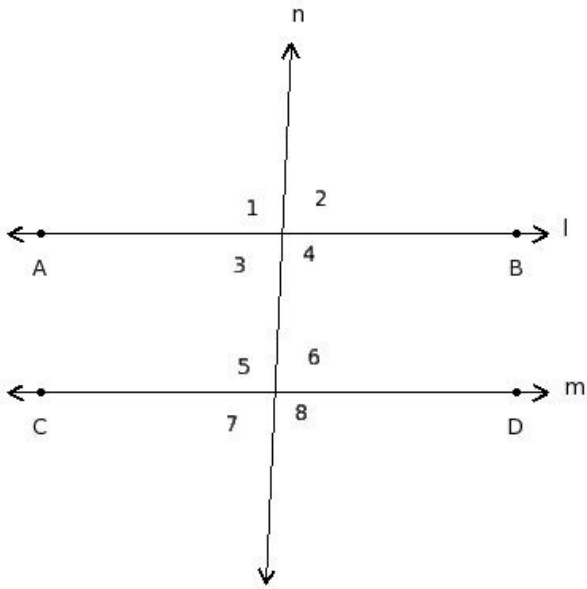
- (i)  $\angle 1, \angle 5$ ;  $\angle 2, \angle 6$ ;  $\angle 3, \angle 7$ ;  $\angle 4, \angle 8$  (ii)  $\angle 1, \angle 8$ ;  $\angle 2, \angle 7$   
 (iii)  $\angle 1, \angle 2$ ;  $\angle 2, \angle 4$ ;  $\angle 4, \angle 3$ ;  $\angle 3, \angle 1$ ;  $\angle 5, \angle 6$ ;  $\angle 6, \angle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

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



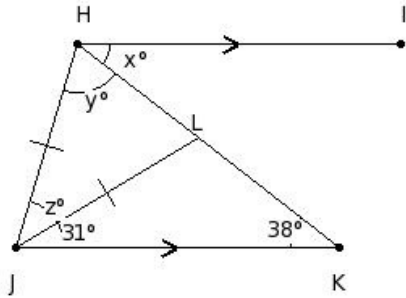
- (i) III (ii) IV (iii) II (iv) I

6. Find the corresponding angles in the given figure



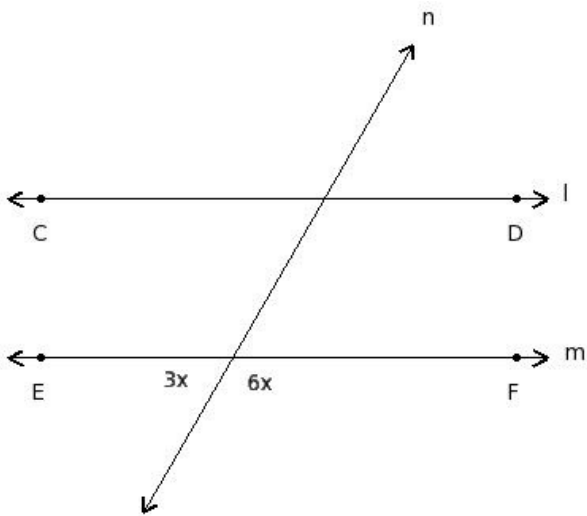
- (i)  $\angle 3, \angle 4, \angle 5, \angle 6$  (ii)  $\angle 1, \angle 2, \angle 7, \angle 8$  (iii)  $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$   
 (iv)  $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3, \angle 1; \angle 5, \angle 6; \angle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

7. In the given figure,  $HI \parallel JK$  and  $HJ = JL$ . Find the values of  $x, y$  and  $z$ .



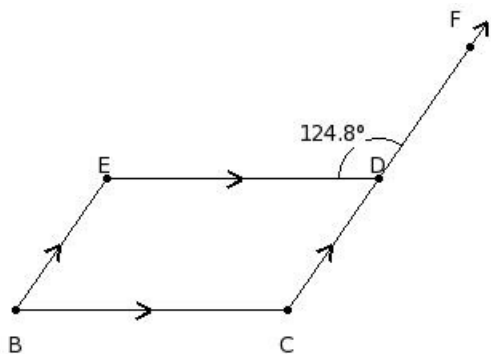
- (i)  $x=36^\circ, y=71^\circ, z=42^\circ$  (ii)  $x=38^\circ, y=67^\circ, z=44^\circ$  (iii)  $x=38^\circ, y=69^\circ, z=42^\circ$  (iv)  $x=40^\circ, y=69^\circ, z=40^\circ$   
 (v)  $x=36^\circ, y=69^\circ, z=44^\circ$

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



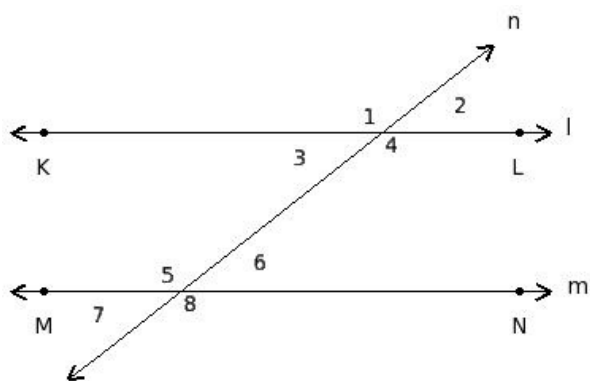
- (i) 23 (ii) 21 (iii) 20 (iv) 17 (v) 19

9. In the adjoining figure, side CD of parallelogram BCDE has been produced to F. If  $\angle EDF = 124.8^\circ$ , find the measure of each angle of the parallelogram.



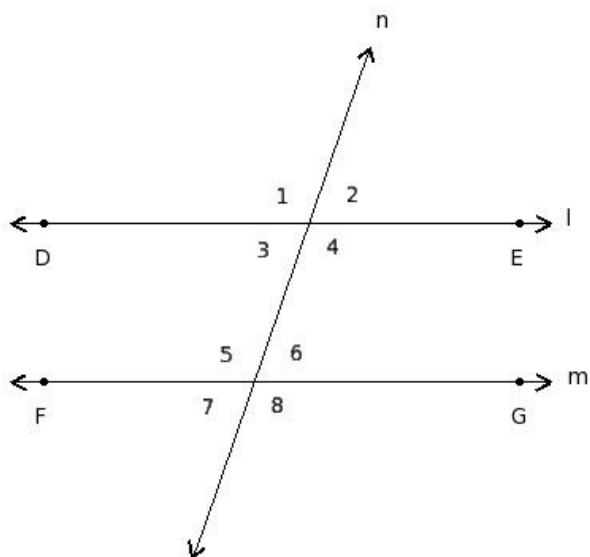
- (i)  $B=57.2^\circ, C=123.8^\circ, D=53.2^\circ, E=125.8^\circ$  (ii)  $B=53.2^\circ, C=126.8^\circ, D=54.2^\circ, E=125.8^\circ$   
 (iii)  $B=56.2^\circ, C=123.8^\circ, D=57.2^\circ, E=122.8^\circ$  (iv)  $B=54.2^\circ, C=122.8^\circ, D=56.2^\circ, E=126.8^\circ$   
 (v)  $B=55.2^\circ, C=124.8^\circ, D=55.2^\circ, E=124.8^\circ$

10. Find the vertically opposite angles in the given figure



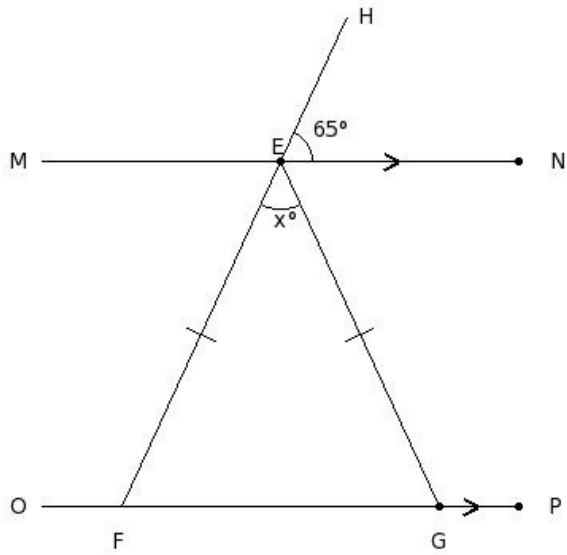
- (i)  $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$  (ii)  $\angle 1, \angle 8; \angle 2, \angle 7$  (iii)  $\angle 1, \angle 2, \angle 7, \angle 8$   
 (iv)  $\angle 3, \angle 6; \angle 4, \angle 5$  (v)  $\angle 3, \angle 4, \angle 5, \angle 6$

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



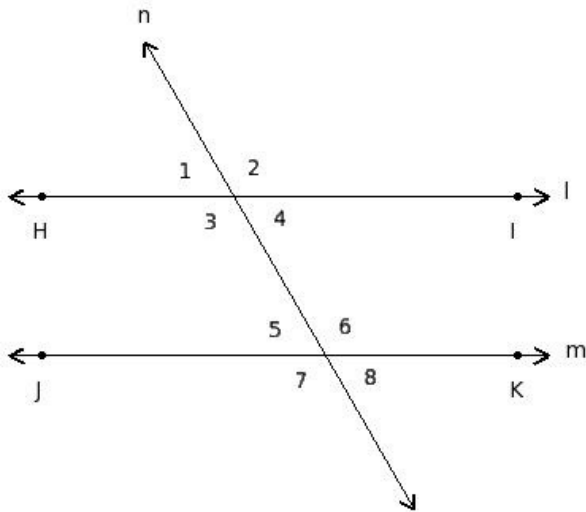
- (i)  $\angle 1, \angle 2, \angle 7, \angle 8$  (ii)  $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$  (iii)  $\angle 3, \angle 4, \angle 5, \angle 6$   
 (iv)  $\angle 3, \angle 5; \angle 4, \angle 6$  (v)  $\angle 1, \angle 8; \angle 2, \angle 7$

12. In the given figure,  $MN \parallel OP$ ,  $\angle HEN = 65^\circ$  and  $EF = GE$ . Find the measure of  $x$ .



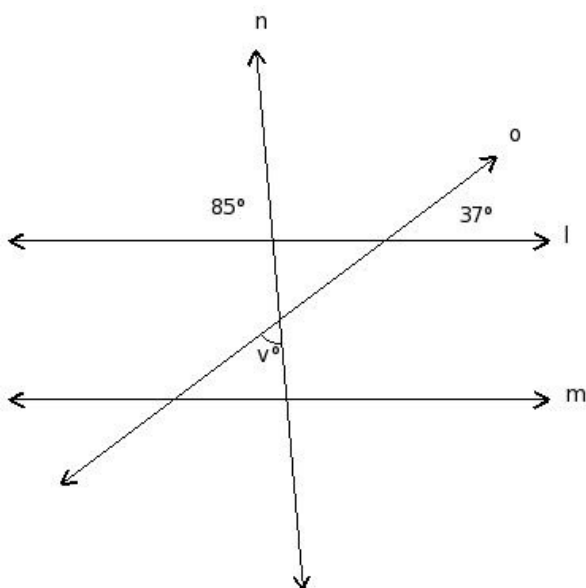
- (i)  $x=50^\circ$  (ii)  $x=52^\circ$  (iii)  $x=49^\circ$  (iv)  $x=48^\circ$  (v)  $x=51^\circ$

13. Find the exterior angles in the given figure



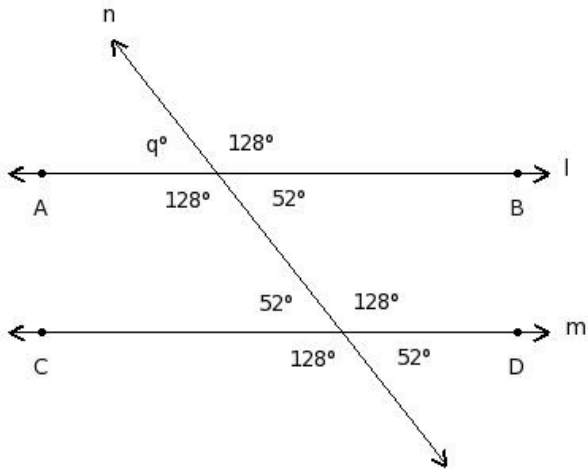
- (i)  $\angle 1, \angle 2, \angle 7, \angle 8$  (ii)  $\angle 3, \angle 4, \angle 5, \angle 6$  (iii)  $\angle 1, \angle 8; \angle 2, \angle 7$  (iv)  $\angle 3, \angle 6; \angle 4, \angle 5$   
 (v)  $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$

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



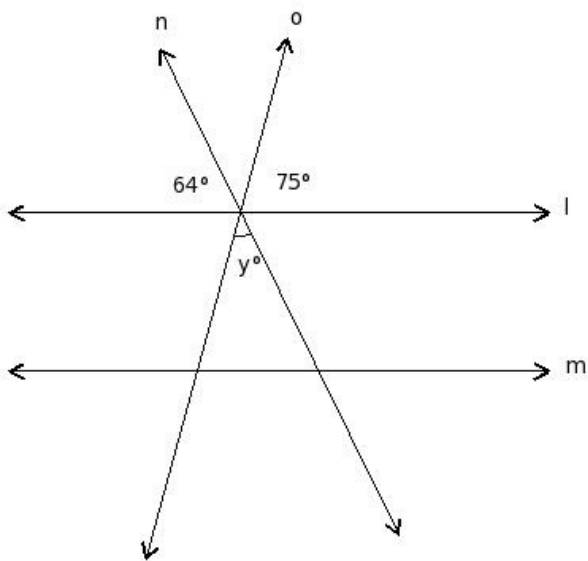
- (i)  $63^\circ$  (ii)  $58^\circ$  (iii)  $68^\circ$  (iv)  $88^\circ$  (v)  $73^\circ$

15. Find the value of 'q'



- (i)  $57^\circ$  (ii)  $52^\circ$  (iii)  $67^\circ$  (iv)  $82^\circ$  (v)  $62^\circ$

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



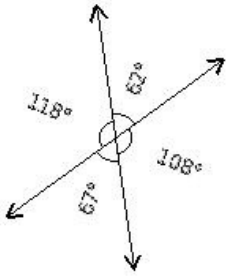
- (i)  $46^\circ$  (ii)  $71^\circ$  (iii)  $56^\circ$  (iv)  $41^\circ$  (v)  $51^\circ$

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

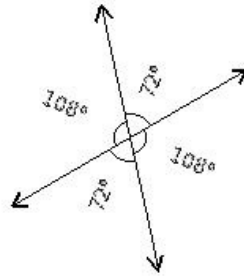
- a)  $n \parallel p$
- b)  $m \parallel o$
- c)  $m \perp p$
- d)  $o \parallel p$
- e)  $m \parallel p$

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

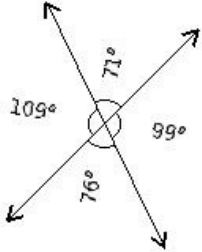
18. Which of the given figures is correct?



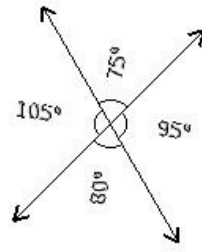
I



II



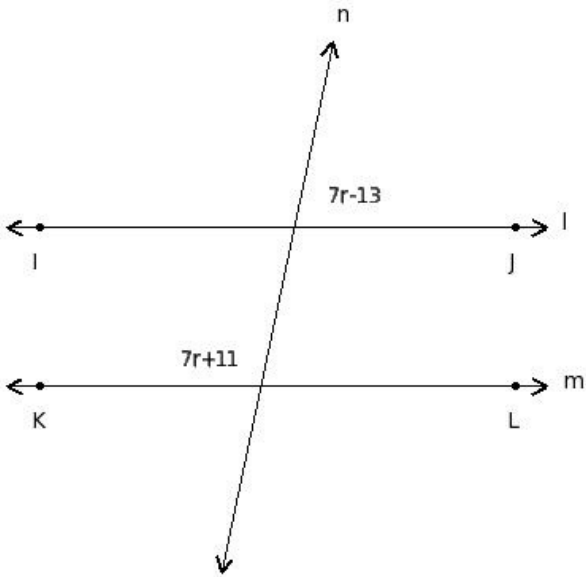
III



IV

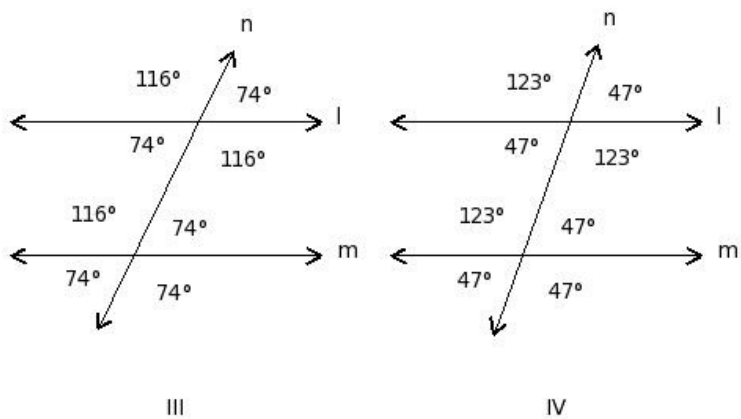
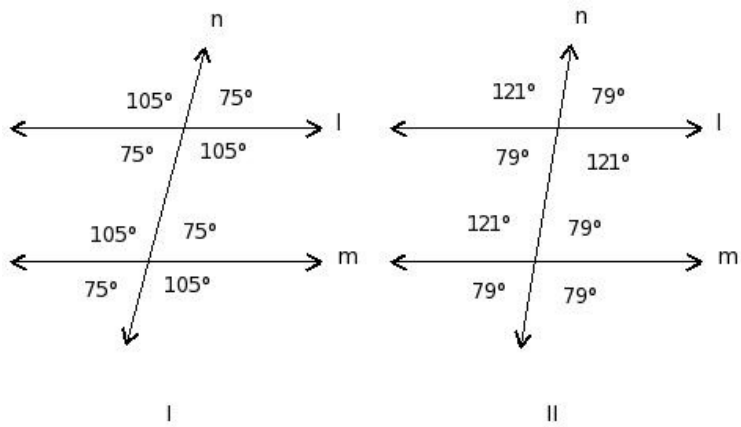
(i) IV (ii) III (iii) I (iv) II

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



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

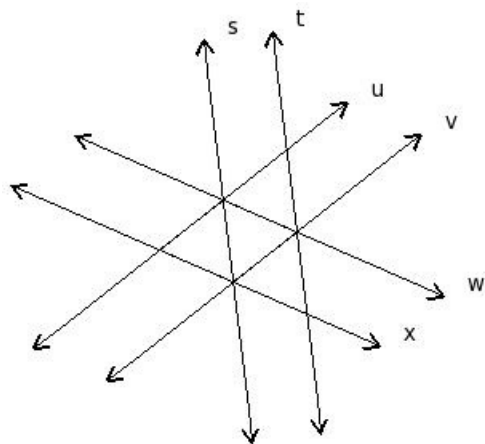
20. If  $l \parallel m$ , which of the given figures is correct?



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

21. In the given figure,  $s, t, u, v, w, x$  are lines in a plane. By looking at the figure, which of the following are true?

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



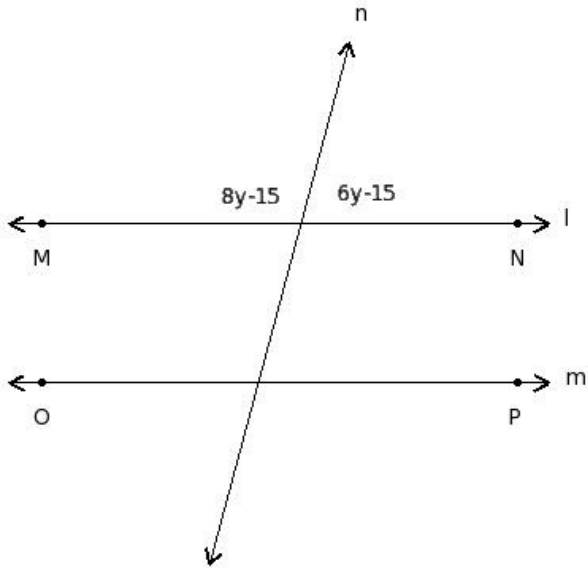
(i) {b,d,e} (ii) {b,a} (iii) {b,f,a} (iv) {a,c,e,f} (v) {d,c}

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

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

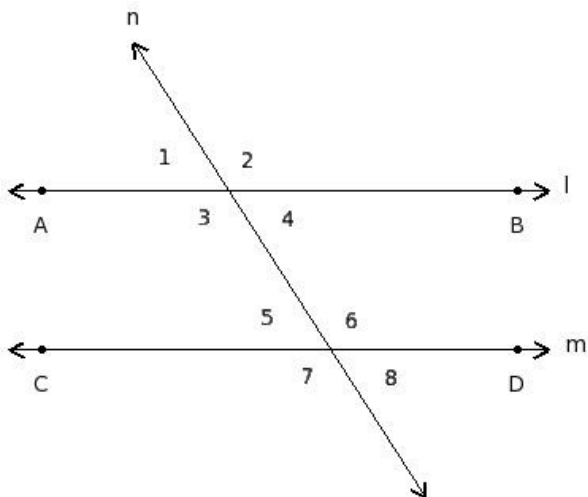
(i) {a,c,e} (ii) {b,a} (iii) {f,b,e} (iv) {d,c} (v) {d,a,c}

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



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

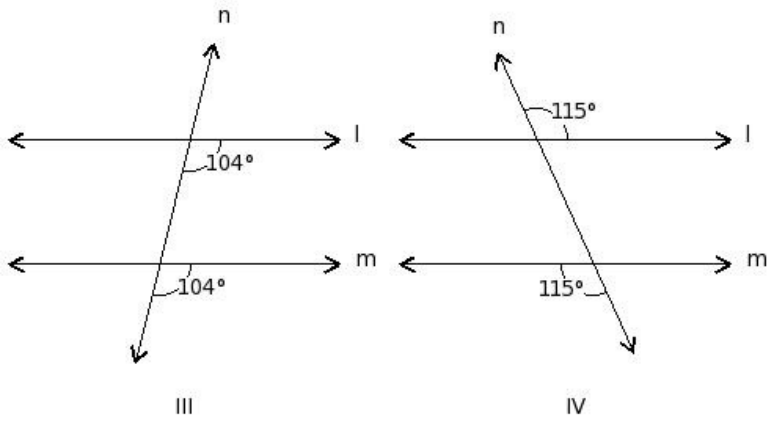
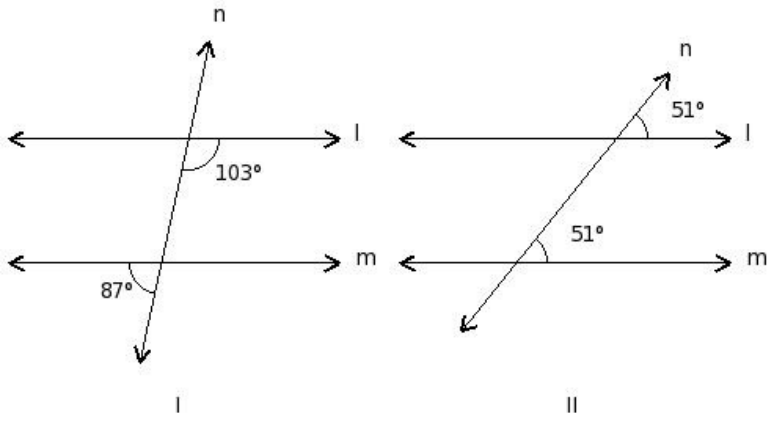
24. Find the adjacent angles in the given figure



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

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



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

## Assignment Key

1) (v)	2) (iii)	3) (iv)	4) (ii)	5) (ii)	6) (iii)
7) (iii)	8) (iii)	9) (v)	10) (i)	11) (iv)	12) (i)
13) (i)	14) (ii)	15) (ii)	16) (iv)	17) (ii)	18) (iv)
19) (iii)	20) (ii)	21) (iv)	22) (i)	23) (ii)	24) (v)
25) (ii)					