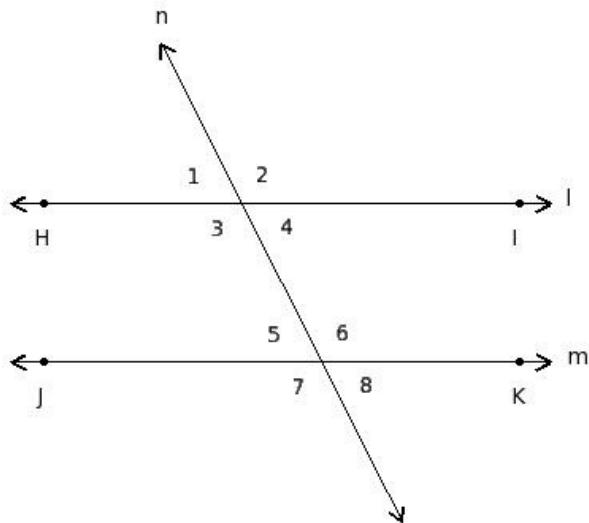




1. Which of the following are true with respect to lines r, s, t, u where $r \parallel s, s \perp t, t \perp u$?

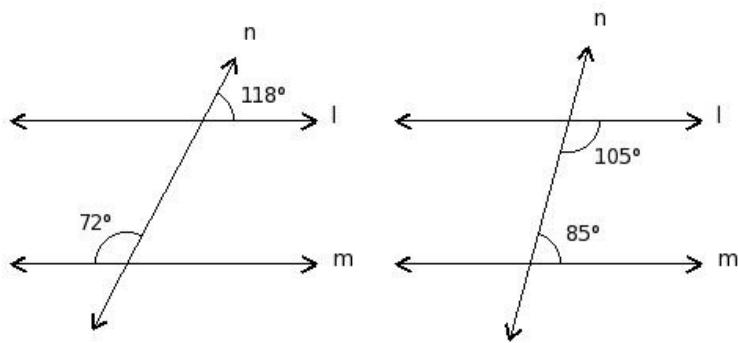
- a) $r \parallel t$
 - b) $t \parallel u$
 - c) $s \parallel u$
 - d) $r \parallel u$
 - e) $r \perp u$
- (i) {e,a,c} (ii) {b,d} (iii) {a,c} (iv) {c,d} (v) {b,d,c}

2. Find the exterior angles in the given figure

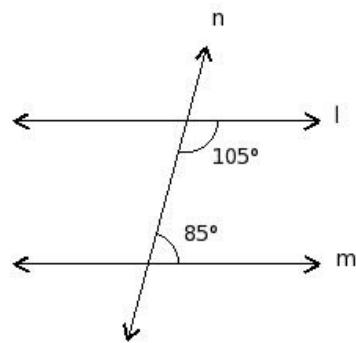


- (i) $\angle 3, \angle 6; \angle 4, \angle 5$ (ii) $\angle 1, \angle 2, \angle 7, \angle 8$ (iii) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$
(iv) $\angle 3, \angle 5; \angle 4, \angle 6$ (v) $\angle 1, \angle 2; \angle 2, \angle 4; \angle 4, \angle 3; \angle 3,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

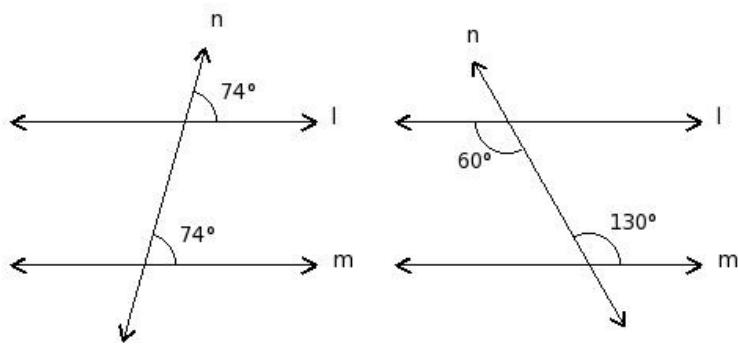
3. In which of the figures given below, $l \parallel m$?



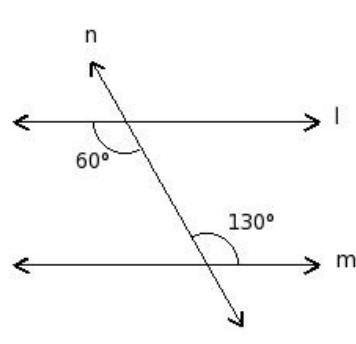
I



II



III



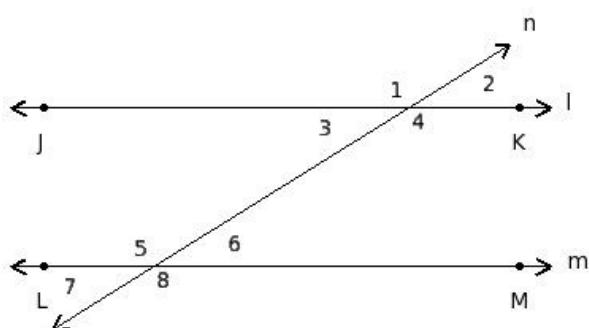
IV

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

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

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

5. Find the exterior alternate angles in the given figure

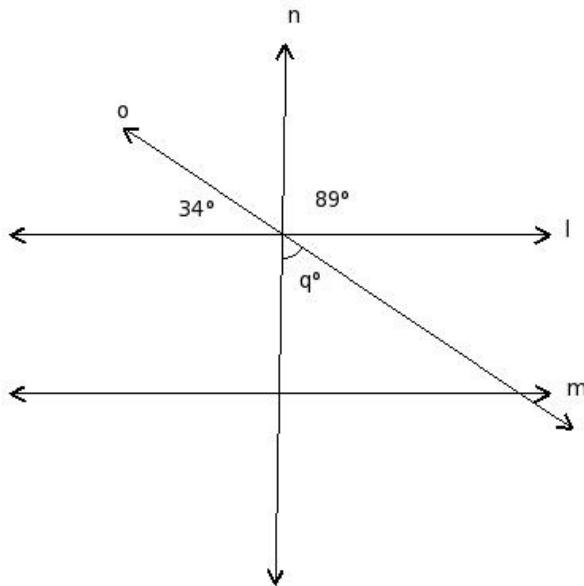


- (i) $\angle 3, \angle 5; \angle 4, \angle 6$ (ii) $\angle 3, \angle 4, \angle 5, \angle 6$ (iii) $\angle 3, \angle 6; \angle 4, \angle 5$
 (iv) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$ (v) $\angle 1, \angle 8; \angle 2, \angle 7$

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

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

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



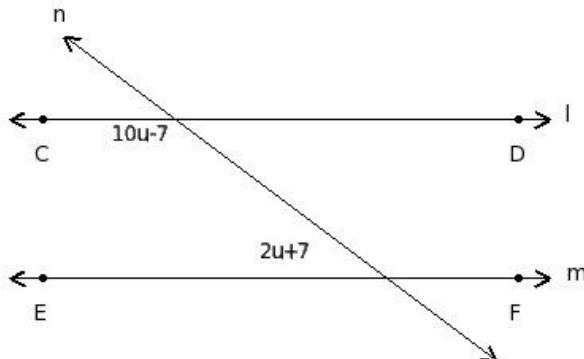
- (i) 67° (ii) 87° (iii) 57° (iv) 72° (v) 62°

8. Which of the following are true?

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

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

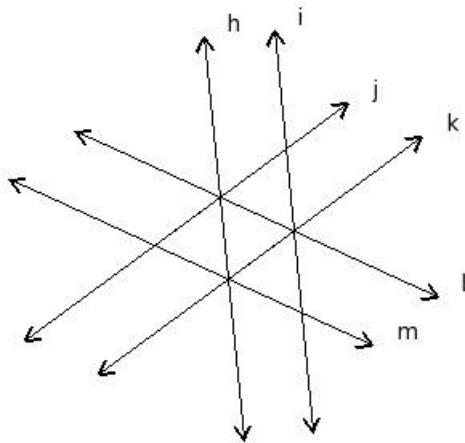
9. In the given figure $l \parallel m$. Find the value of 'u'



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

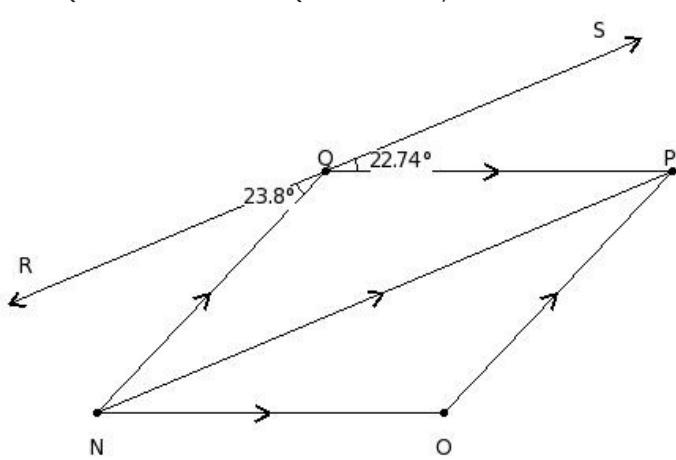
10. In the given figure, h , i , j , k , l , m are lines in a plane. By looking at the figure, which of the following are true?

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



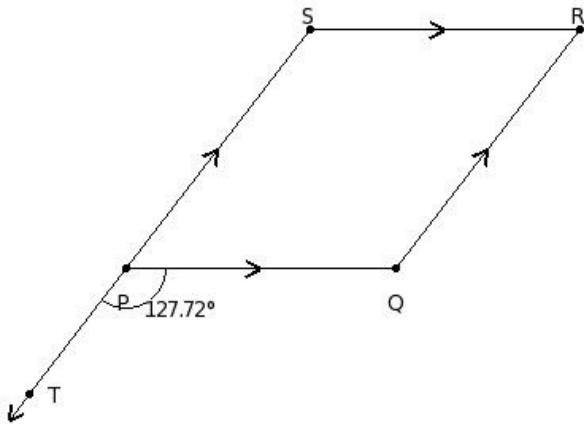
- (i) {a,f,c}
- (ii) {a,b,e}
- (iii) {c,d,e,f}
- (iv) {b,d}
- (v) {a,c}

11. In the adjoining figure, NOPQ is a parallelogram and RS is such that $\overline{RS} \parallel \overline{NP}$. If $\angle NQR = 23.8^\circ$ and $\angle PQS = 22.74^\circ$, find the measure of $\angle NOP$.



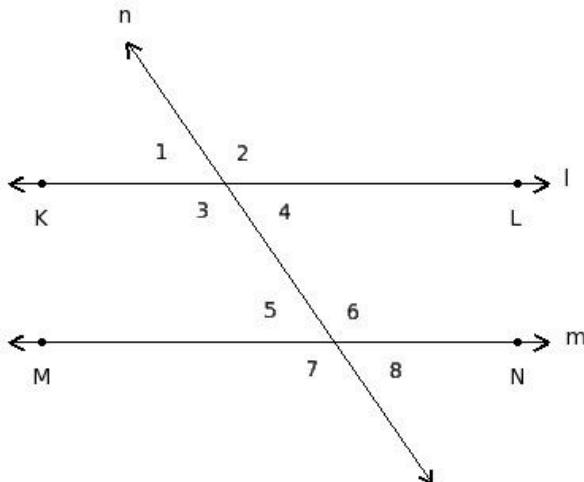
- (i) 131.46°
- (ii) 134.46°
- (iii) 135.46°
- (iv) 133.46°
- (v) 132.46°

12. In the adjoining figure, side SP of parallelogram PQRS has been produced to T. If $\angle QPT = 127.72^\circ$, find the measure of each angle of the parallelogram.



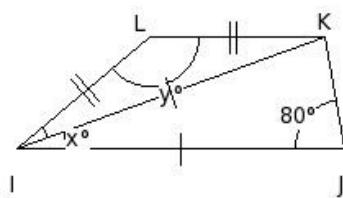
- (i) $P=51.28^\circ, Q=125.72^\circ, R=53.28^\circ, S=129.72^\circ$ (ii) $P=52.28^\circ, Q=127.72^\circ, R=52.28^\circ, S=127.72^\circ$
- (iii) $P=50.28^\circ, Q=129.72^\circ, R=51.28^\circ, S=128.72^\circ$ (iv) $P=53.28^\circ, Q=126.72^\circ, R=54.28^\circ, S=125.72^\circ$
- (v) $P=54.28^\circ, Q=126.72^\circ, R=50.28^\circ, S=128.72^\circ$

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



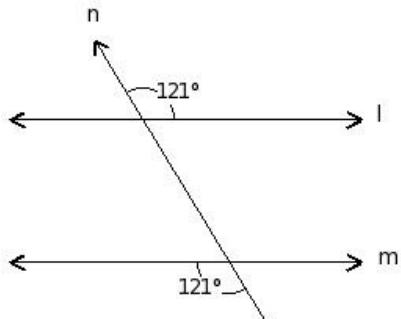
- (i) $\angle 1, \angle 2, \angle 7, \angle 8$ (ii) $\angle 3, \angle 6; \angle 4, \angle 5$ (iii) $\angle 1, \angle 4; \angle 2, \angle 3; \angle 5, \angle 8; \angle 6, \angle 7$
- (iv) $\angle 3, \angle 5; \angle 4, \angle 6$ (v) $\angle 1, \angle 8; \angle 2, \angle 7$

14. In the following figure $IJ \parallel LK$, find the values of x and y .

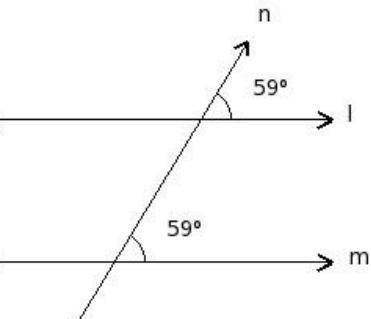


- (i) $x=20^\circ, y=140^\circ$ (ii) $x=19^\circ, y=139^\circ$ (iii) $x=21^\circ, y=141^\circ$ (iv) $x=18^\circ, y=138^\circ$ (v) $x=22^\circ, y=142^\circ$

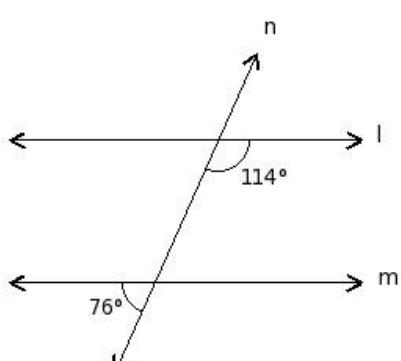
15. In which of the figures given below, $l \not\parallel m$ (not parallel)?



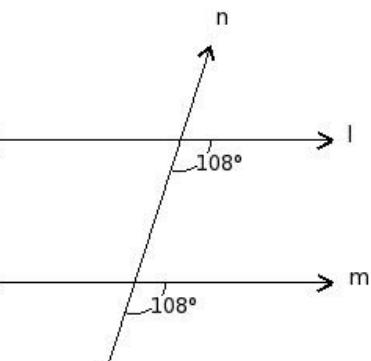
I



II



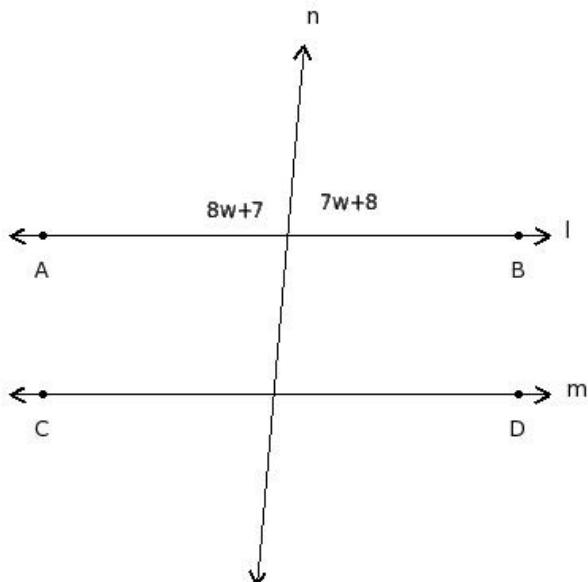
III



IV

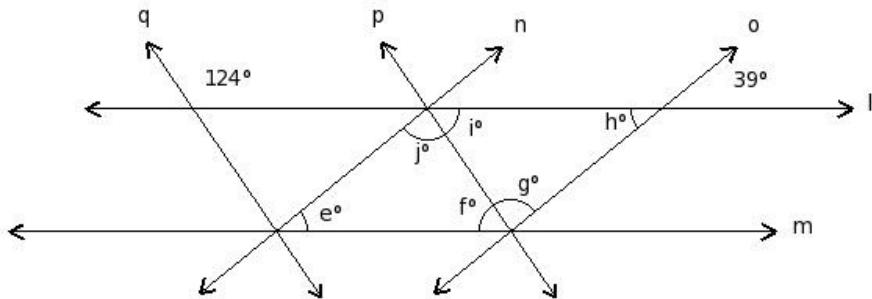
- (i) III (ii) I (iii) II (iv) IV

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



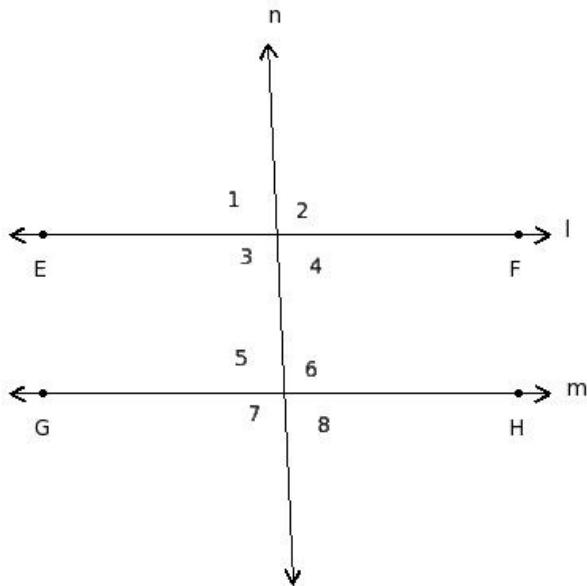
- (i) 14 (ii) 10 (iii) 11 (iv) 12 (v) 9

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



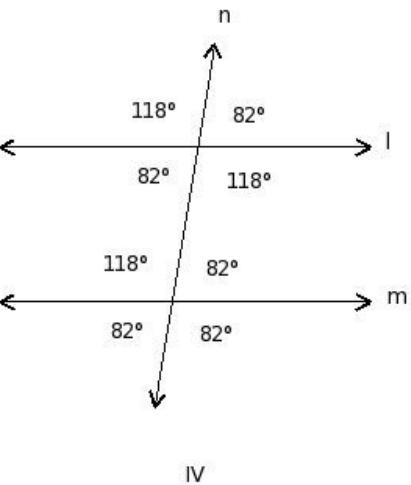
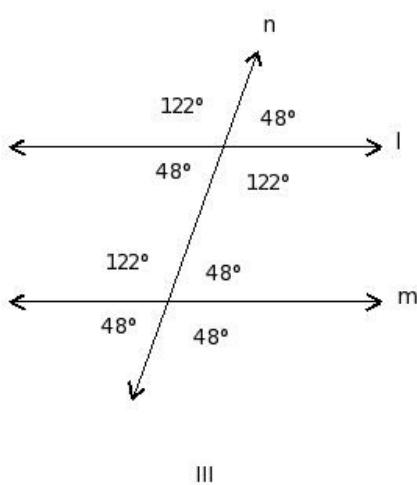
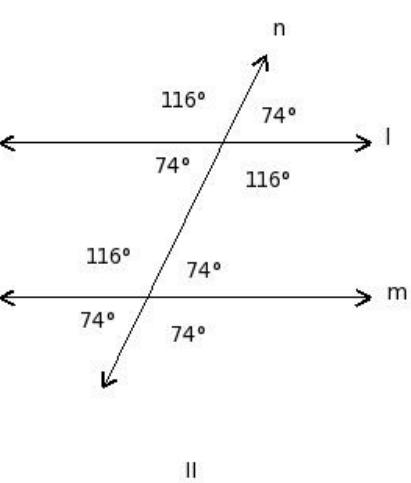
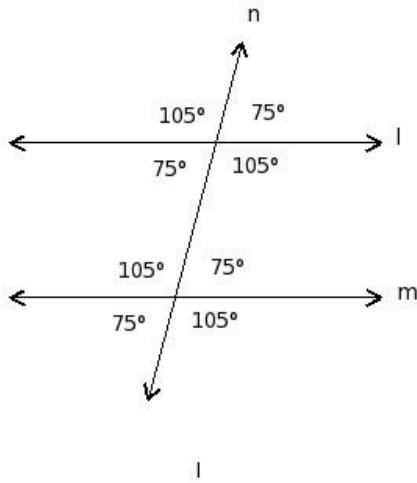
- (i) $39^\circ, 56^\circ, 39^\circ, 85^\circ, 56^\circ, 85^\circ$ (ii) $85^\circ, 85^\circ, 56^\circ, 39^\circ, 39^\circ, 56^\circ$ (iii) $39^\circ, 56^\circ, 85^\circ, 39^\circ, 56^\circ, 85^\circ$
(iv) $39^\circ, 56^\circ, 85^\circ, 56^\circ, 85^\circ, 39^\circ$

18. Find the corresponding angles in the given figure



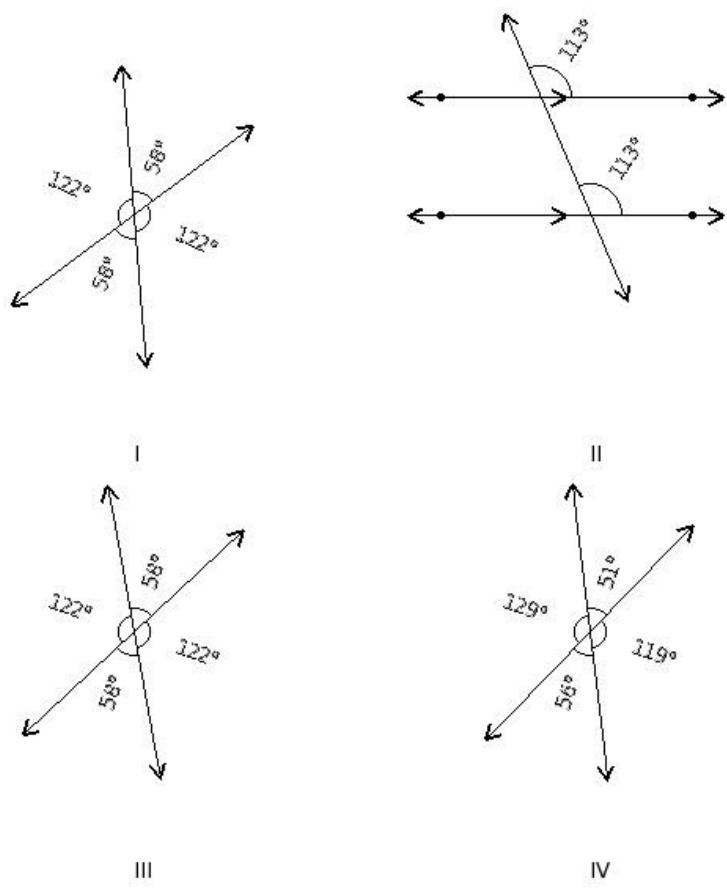
- (i) $\angle 1, \angle 5; \angle 2, \angle 6; \angle 3, \angle 7; \angle 4, \angle 8$ (ii) $\angle 1, \angle 2, \angle 7, \angle 8$ (iii) $\angle 3, \angle 5; \angle 4, \angle 6$
(iv) $\angle 3, \angle 4, \angle 5, \angle 6$ (v) $\angle 3, \angle 6; \angle 4, \angle 5$

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



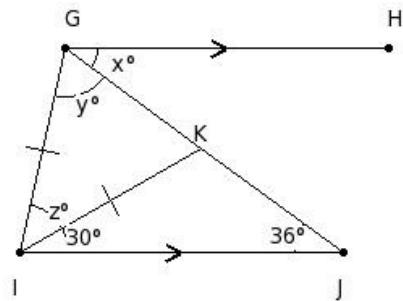
- (i) III (ii) II (iii) IV (iv) I

20. Which of the given figures is wrong?



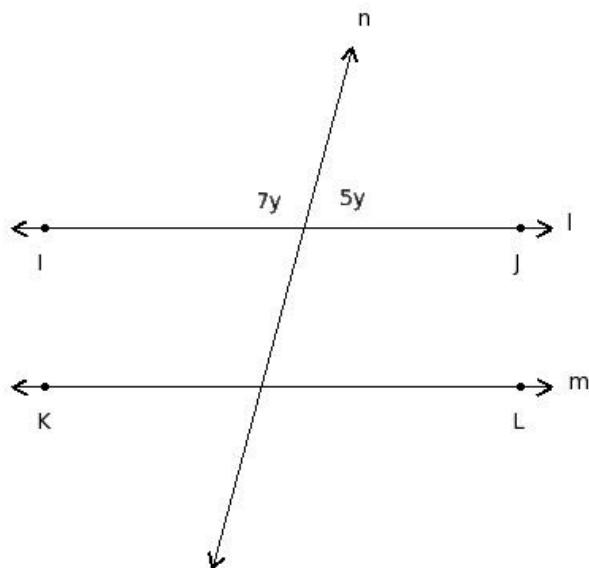
- (i) III (ii) I (iii) IV (iv) II

21. In the given figure, $GH \parallel IJ$ and $GI = IK$. Find the values of x, y and z .



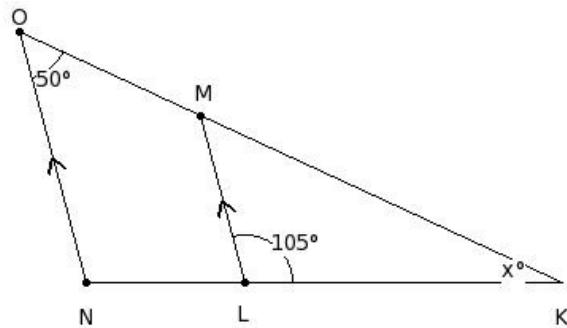
- (i) $x=34^\circ, y=66^\circ, z=50^\circ$ (ii) $x=36^\circ, y=66^\circ, z=48^\circ$ (iii) $x=38^\circ, y=66^\circ, z=46^\circ$ (iv) $x=34^\circ, y=68^\circ, z=48^\circ$
 (v) $x=36^\circ, y=64^\circ, z=50^\circ$

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



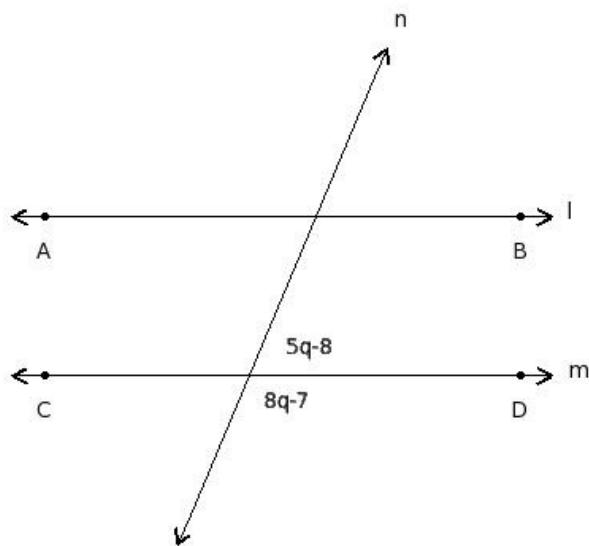
- (i) 14 (ii) 16 (iii) 17 (iv) 15 (v) 12

23. In the given figure, it is given that $ML \parallel ON$, $\angle MON = 50^\circ$ and $\angle MLK = 105^\circ$. Find the value of x .



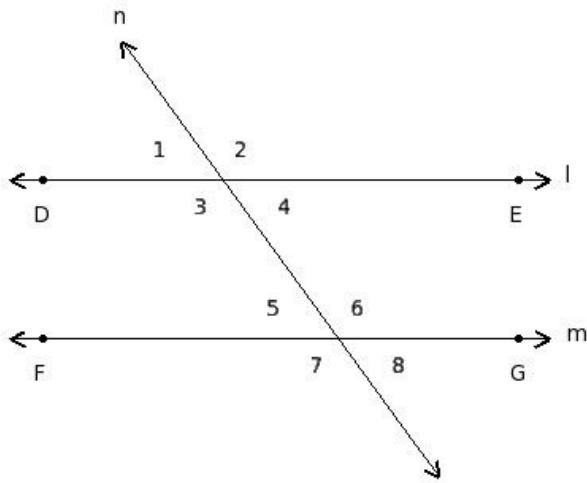
- (i) $x=25^\circ$ (ii) $x=26^\circ$ (iii) $x=27^\circ$ (iv) $x=23^\circ$ (v) $x=24^\circ$

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



- (i) 16 (ii) 15 (iii) 13 (iv) 17 (v) 14

25. Find the vertically opposite 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) $\angle 3, \angle 5 ; \angle 4, \angle 6$

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

Assignment Key

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

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