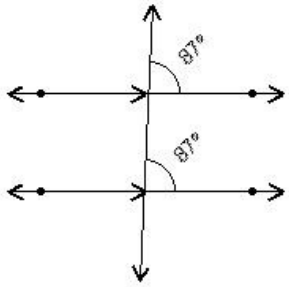
EduSahara™ Worksheet

Name : Chapter Based Worksheet

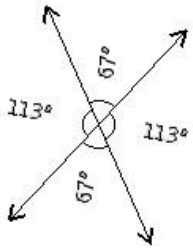
Chapter : Lines and Angles

Grade : CBSE Grade VII

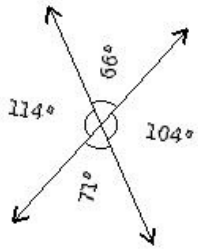
1. Which of the given figures is wrong?



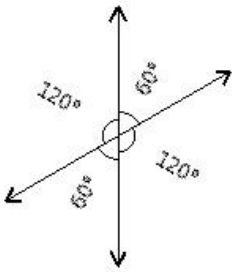
I



II



III



IV

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

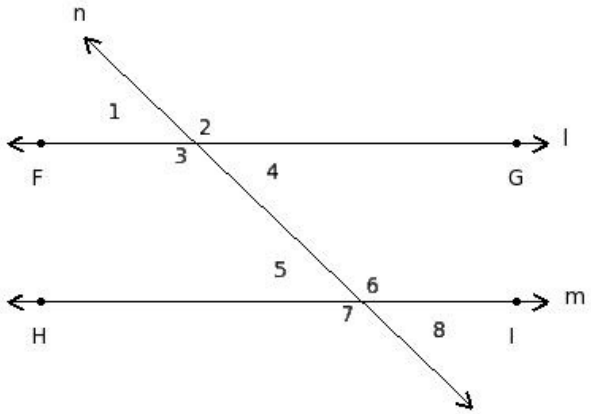
2. The representation $\overrightarrow{FG}$ indicates

(i) line (ii) ray (iii) angle (iv) arc (v) line segment

3. The supplementary angle of $173°$ is

(i) 7° (ii) 37° (iii) 22° (iv) 12° (v) 17°

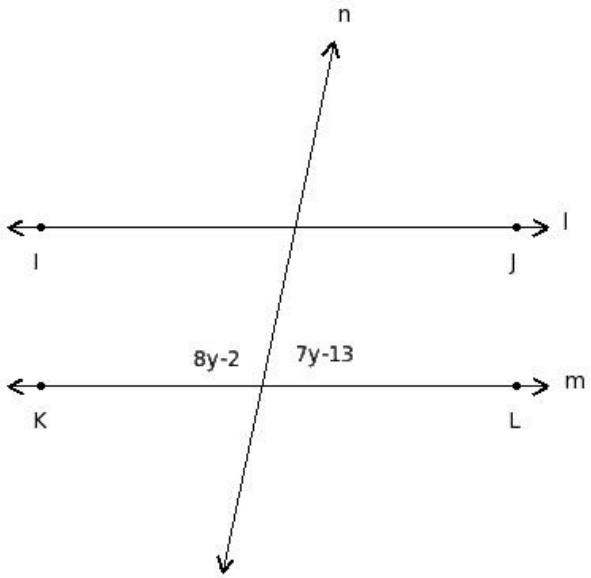
4. Find the interior alternate angles in the given figure



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

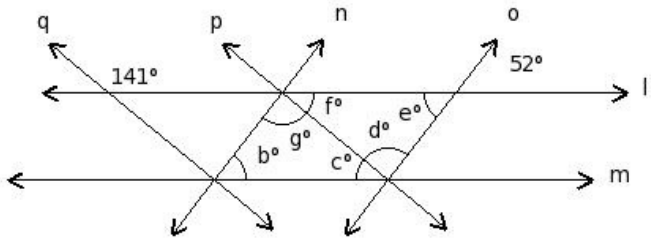
(iii) ∠1 , ∠2 , ∠7 , ∠8 (iv) ∠3 , ∠6 ; ∠4 , ∠5 (v) ∠3 , ∠5 ; ∠4 , ∠6

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



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

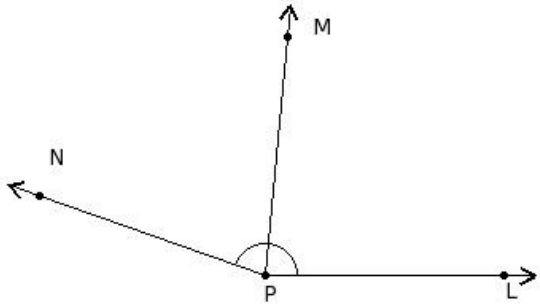
6. In the given figure, l ∥ m and n ∥ o and p ∥ q. Find the values of {b,c,d,e,f,g}



(i) 39°,52°,89°,39°,89°,52° (ii) 39°,39°,89°,52°,89°,52° (iii) 52°,39°,89°,52°,39°,89°

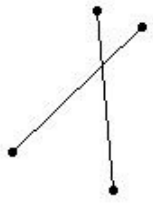
(iv) 89°,52°,52°,39°,39°,89° (v) 52°,39°,89°,52°,89°,39°

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



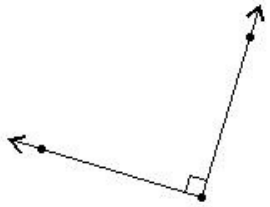
(i) ∠NPL , ∠PPQ (ii) ∠MPN , ∠OPP (iii) ∠PPQ , ∠MPN (iv) ∠LPM , ∠MPN (v) ∠OPP , ∠MPN

8. The following lines represent



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

9. The following angle represents



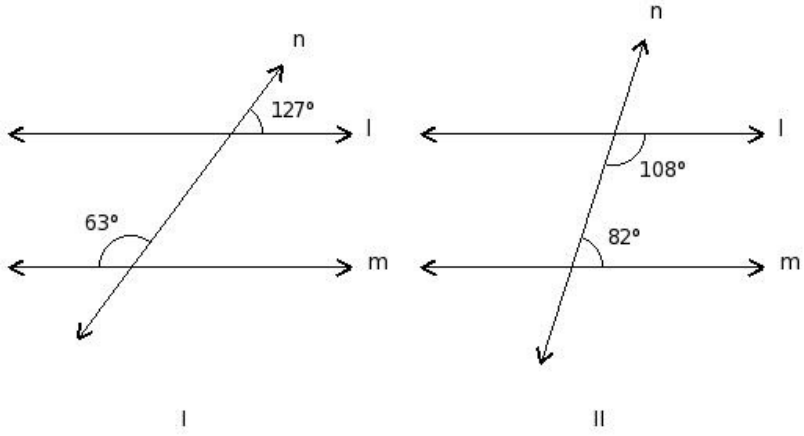
(i) zero angle (ii) complete angle (iii) right angle (iv) straight angle (v) obtuse angle

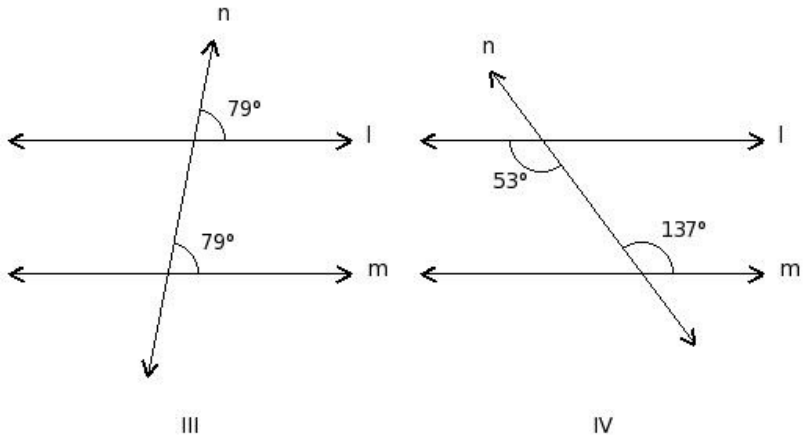
10. Which of the following are true with respect to lines n , o , p , q where n ∥ o , o ⊥ p , p ⊥ q?

a) n ∥ q
b) n ∥ p
c) n ⊥ q
d) o ∥ q
e) p ∥ q

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

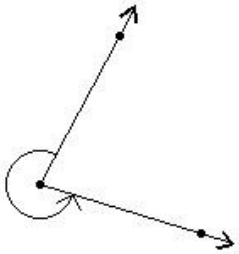
11. In which of the figures given bellow, l ∥ m?





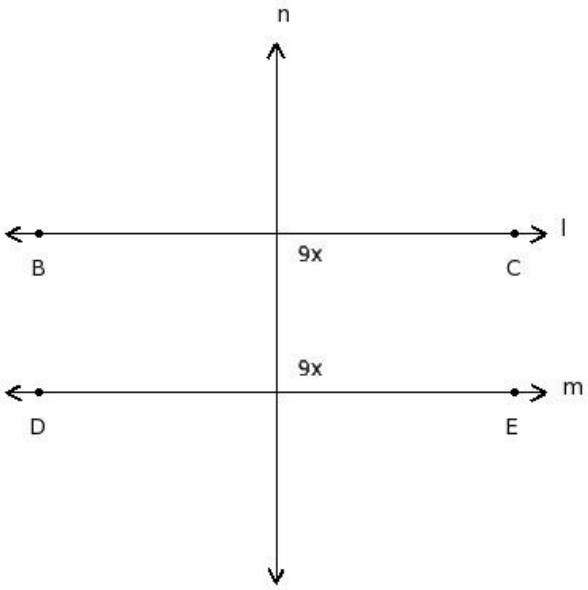
(i) I (ii) IV (iii) III (iv) II

12. The following angle represents



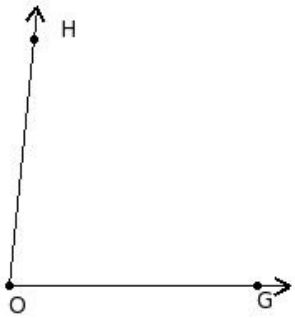
(i) straight angle (ii) right angle (iii) reflex angle (iv) acute angle (v) complete angle

13. In the given figure l ∥ m. Find the value of 'x'



(i) 13 (ii) 10 (iii) 7 (iv) 11 (v) 9

14. The name of the given angle is

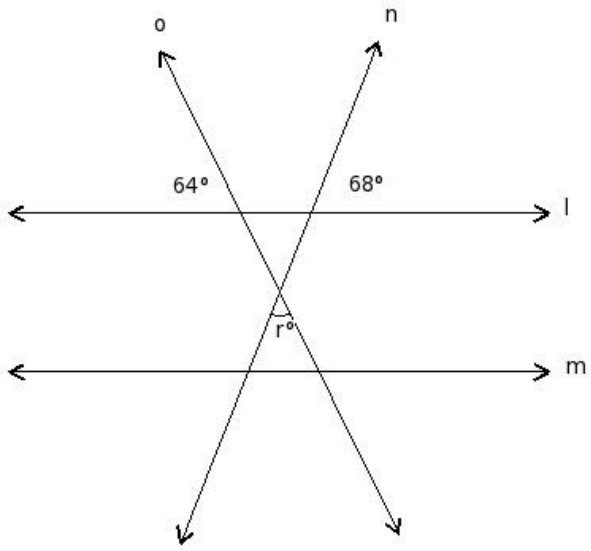


(i) ∠GOH (ii) ∠HGO (iii) ∠GHO (iv) △GOH (v) ∠GH

15. Identify the figure below

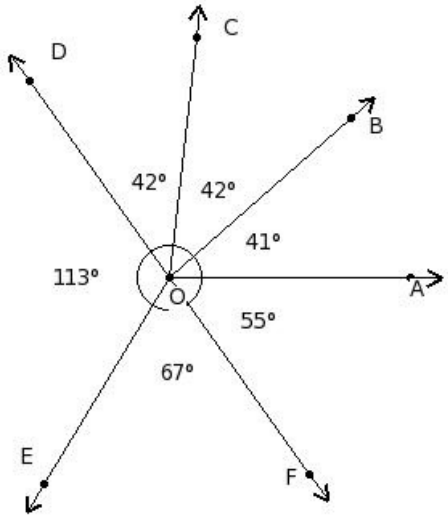
(i) hexagon (ii) decagon (iii) heptagon (iv) line (v) angle

16. In the given figurel ‖ m. Find the value of 'r'



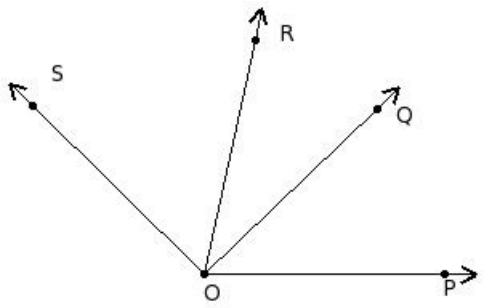
(i) 58° (ii) 53° (iii) 63° (iv) 78° (v) 48°

17. Which of the following angles form a linear pair?



(i) (∠BOC,∠COD) (ii) (∠DOE,∠EOF) (iii) (∠COD,∠DOE) (iv) (∠AOB,∠BOC) (v) (∠EOF,∠FOA)

18. Which of the following is the largest angle in the given figure?



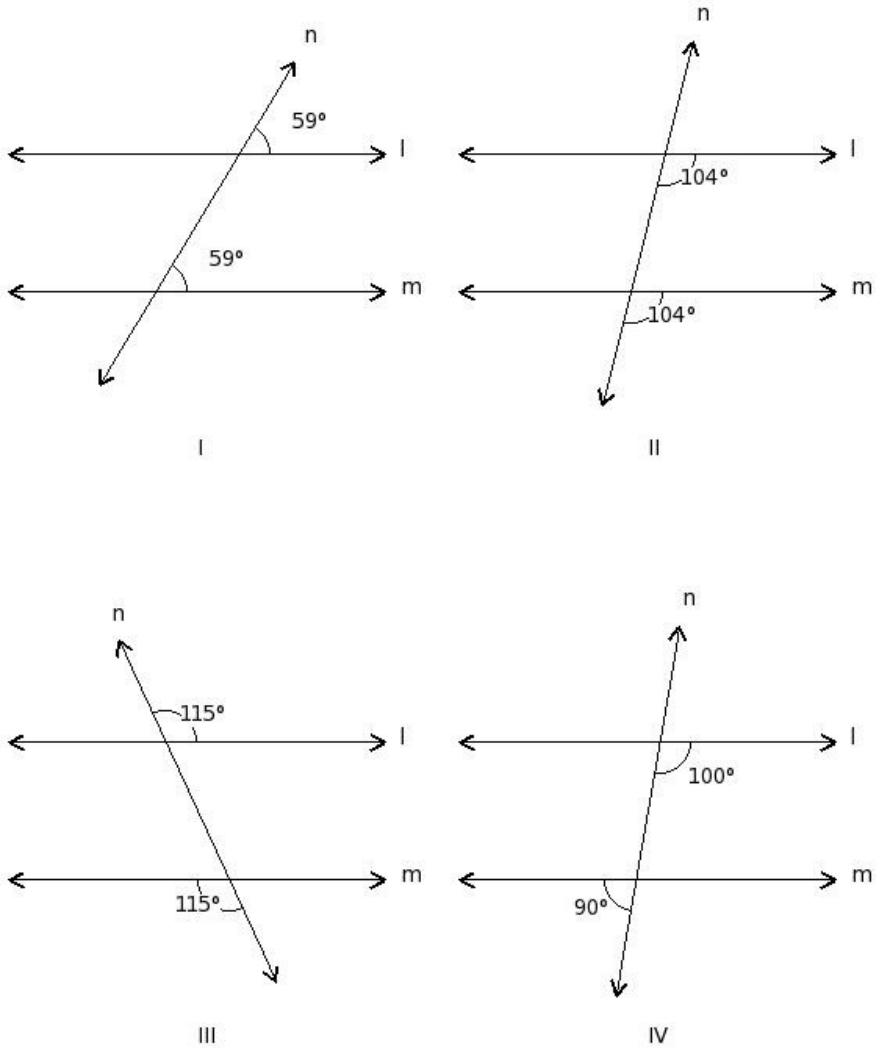
(i) ∠POQ (ii) ∠QOS (iii) ∠QOR (iv) ∠POS (v) ∠POR

19. 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 on the same side of the transversal
d) They are not adjacent angles
e) They are adjacent angles
f) They are on either side of the transversal

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

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



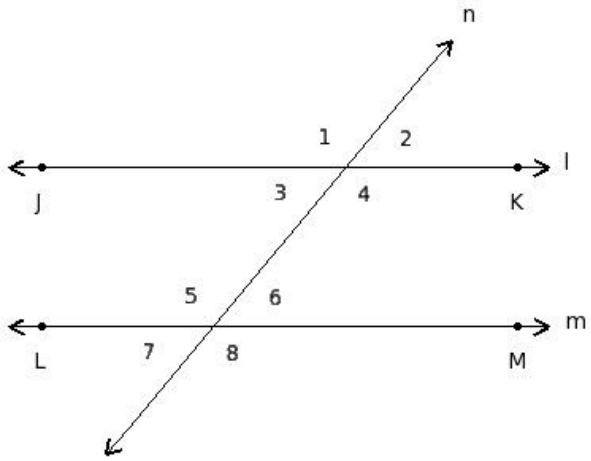
(i) III (ii) IV (iii) I (iv) II

21. Which of the following are true?

a) A straight line meets another straight line at atmost one point
b) If a line cuts another line at more than one point, then one of the line is curved
c) Only one straight line can be drawn between any two points
d) If two lines have no common point, then the lines are parallel
e) If two lines have infinite common points, then the two lines are concurrent

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

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

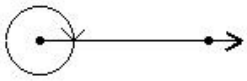


(i) ∠1 , ∠4 ; ∠2 , ∠3 ; ∠5 , ∠8 ; ∠6 , ∠7

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

(iv) ∠3 , ∠4 , ∠5 , ∠6 (v) ∠3 , ∠6 ; ∠4 , ∠5

23. The following angle represents



(i) acute angle (ii) obtuse angle (iii) complete angle (iv) reflex angle (v) zero angle

24. Which of the following is an obtuse angle?

(i) 180° (ii) 90° (iii) 0° (iv) 61° (v) 166°

25. The representation $\overline{MN}$ indicates

(i) arc (ii) ray (iii) angle (iv) line segment (v) line

Assignment Key

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