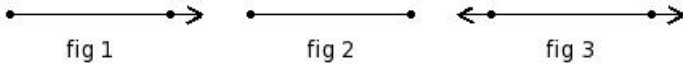


EduSahara™ Learning Center Assignment

Grade : Class IX, CBSE
Chapter : Lines and Angles
Name : Line Concepts

1. Which of the following figures represent a line?



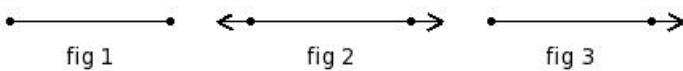
(i) fig 3 (ii) fig 2 (iii) fig 1

2. Which of the following figures represent a ray?



(i) fig 3 (ii) fig 1 (iii) fig 2

3. Which of the following figures represent a line segment?



(i) fig 1 (ii) fig 3 (iii) fig 2

4. Points lying on the same line are called

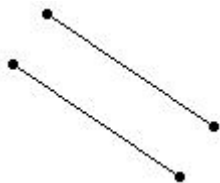
- (i) linear points (ii) concurrent points (iii) collinear points
 (iv) semi-linear points (v) non-linear points

5. Identify the figure below



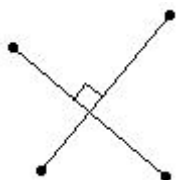
(i) octagon (ii) line (iii) circle (iv) triangle (v) heptagon

6. The following lines represent



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

7. The following lines represent



- (i) concurrent lines (ii) coplanar lines (iii) parallel lines

(iv) intersecting lines (v) perpendicular lines

8. The following lines represent



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

9. Multiple lines drawn on a plane are called

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

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

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

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

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

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

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

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

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

14. The representation \overleftrightarrow{HI} indicates

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

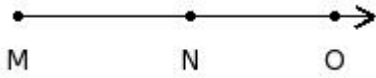
15. The representation \overline{JK} indicates

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

16. The representation \overrightarrow{GH} indicates

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

17. In the figure below, if $MN = 8.60$ cm and $NO = 7.20$ cm, find $MO = ?$



- (i) 16.80 cm (ii) 15.80 cm (iii) 13.80 cm (iv) 17.80 cm (v) 14.80 cm

18. Which of the following are true?

- a) Small letters are used to represent lines
 - b) The length of a line segment cannot be determined
 - c) A line has an infinite number of points on it
 - d) A ray has an infinite number of points on it
 - e) Capital letters are used to represent points
- (i) {b,c} (ii) {b,a} (iii) {b,d} (iv) {b,e,a} (v) {a,c,d,e}

19. Which of the following are true?

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

20. Which of the following are true?

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

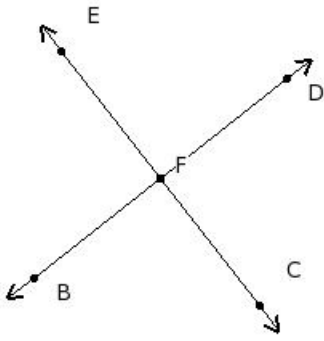
21. Which of the following are true with respect to lines k, l, m, n where $k \parallel l, l \perp m, m \perp n$?

- a) $k \perp n$
 - b) $k \parallel m$
 - c) $m \parallel n$
 - d) $k \parallel n$
 - e) $l \parallel n$
- (i) {d,e} (ii) {b,e,d} (iii) {b,e} (iv) {c,a,d} (v) {a,d}

22. Which of the following points are collinear?

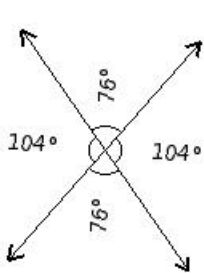
- a) C, F, D
- b) D, F, E
- c) F, E, D
- d) B, F, D
- e)

E, F, C

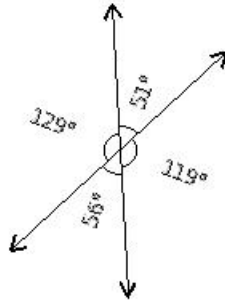


(i) {a,d} (ii) {b,e} (iii) {c,a,d} (iv) {d,e} (v) {b,e,d}

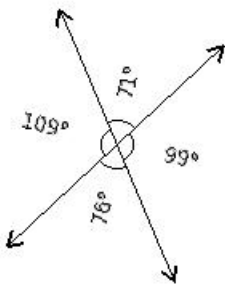
23. Which of the given figures is correct?



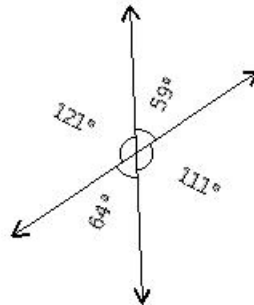
I



II



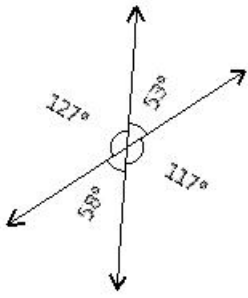
III



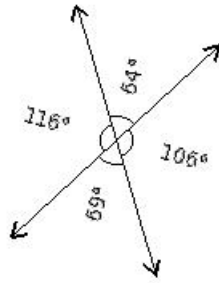
IV

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

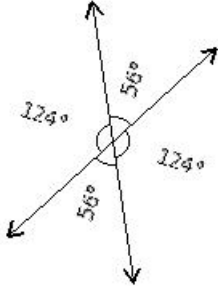
24. Which of the given figures is correct?



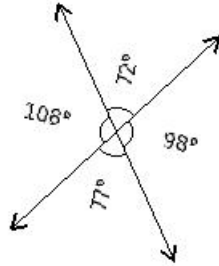
I



II



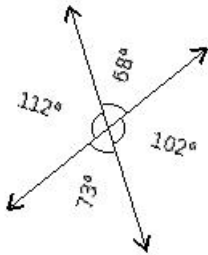
III



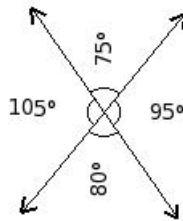
IV

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

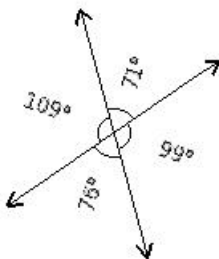
25. Which of the given figures is correct?



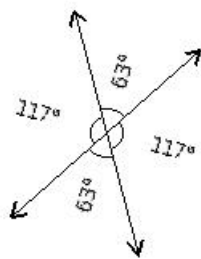
I



II



III



IV

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

26. Consider the following figure \overleftrightarrow{EH} .

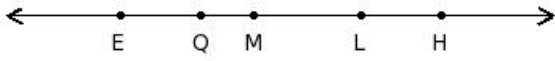
State which of the following statements are true?

- a) E, H are end points of line segment \overline{QL}
- b) E, H are points on the line segment \overline{QL}

c) M , L are end points of line segment \overline{LE}

d) E , Q , M , H , L are points on the line \overleftrightarrow{EH}

e) E , H are end points of line \overleftrightarrow{EH}



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

Assignment Key

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