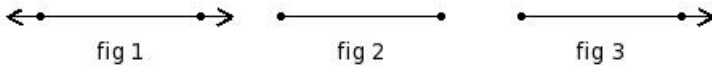


EduSahara™ Learning Center Assignment

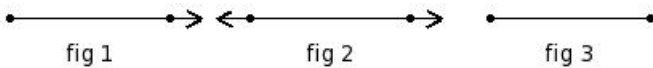
Grade : Class IX, SSC
Chapter : Lines and Angles
Name : Line Concepts

1. Which of the following figures represent a line?



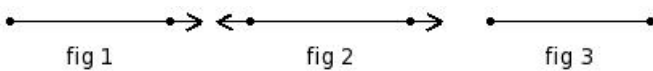
(i) fig 3 (ii) fig 2 (iii) fig 1

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 2 (ii) fig 1 (iii) fig 3

4. Points lying on the same line are called

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

5. Every simple closed curve divides a plane into how many sets of points?

(i) 4 (ii) 6 (iii) 3 (iv) 2 (v) 0

6. Identify the figure below



(i) quadrilateral (ii) decagon (iii) heptagon (iv) line (v) octagon

7. Multiple lines drawn on a plane are called

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

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

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

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

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

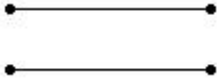
10. A line that intersects two lines at two different points is called

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

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

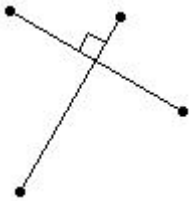
- (i) intersecting lines (ii) perpendicular lines (iii) concurrent lines
(iv) parallel lines (v) coplanar lines
-

12. The following lines represent



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

13. The following lines represent



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

14. The following lines represent



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

15. The representation \overleftrightarrow{FG} indicates

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

16. The representation \overline{DE} indicates

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

17. The representation \overrightarrow{HI} indicates

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

18. Which of the following are true?

- a) Small letters are used to represent lines

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

19. Which of the following are true?

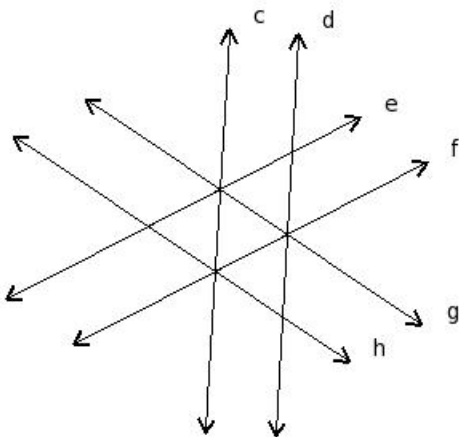
- a) If two lines have no common point, then the lines are parallel
 - b) If two lines have infinite common points, then the two lines are concurrent
 - c) If a line cuts another line at more than one point, then one of the line is curved
 - d) Only one straight line can be drawn between any two points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

20. Which of the following are true?

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

21. In the given figure, c , d , e , f , g , h are lines in a plane. By looking at the figure, which of the following are true?

- a) c is the transversal of e & g
- b) $c \parallel d$
- c) f is the transversal of c & d
- d) g is the transversal of e & f
- e) h is the transversal of e & c
- f) $c \parallel f$



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

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

- a) $u \parallel v$

b) $s \perp v$

c) $t \parallel v$

d) $s \parallel v$

e) $s \parallel u$

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

23. Which of the following points are collinear?

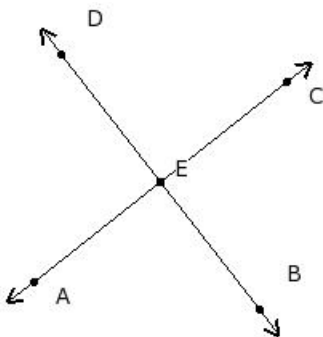
a) A, E, C

b) E, D, C

c) B, E, C

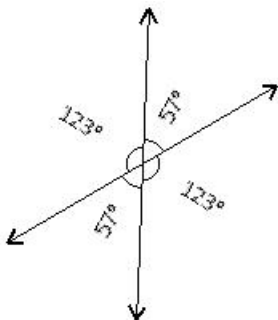
d) D, E, B

e) C, E, D

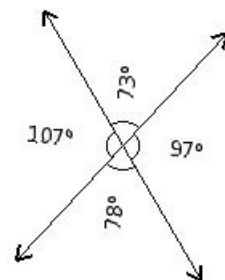


(i) $\{b,a\}$ (ii) $\{e,b,a\}$ (iii) $\{a,d\}$ (iv) $\{c,d\}$ (v) $\{c,d,a\}$

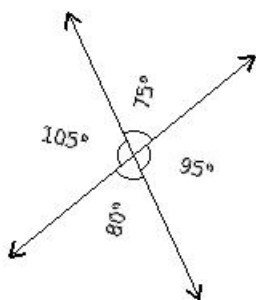
24. Which of the given figures is correct?



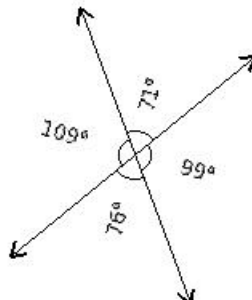
I



II



III



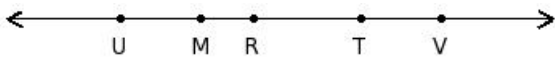
IV

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

25. Consider the following figure \overleftrightarrow{UV} .

State which of the following statements are true?

- a) U, M, R, V, T are points on the line \overleftrightarrow{UV}
- b) U, V are end points of line \overleftrightarrow{UV}
- c) R, T are end points of line segment \overline{TU}
- d) U, V are points on the line segment \overline{MT}
- e) U, V are end points of line segment \overline{MT}



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

26. In the figure below, if $AB = 5.80$ cm and $BC = 9.70$ cm, find $AC = ?$



(i) 15.50 cm (ii) 16.50 cm (iii) 13.50 cm (iv) 14.50 cm (v) 17.50 cm

Assignment Key

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