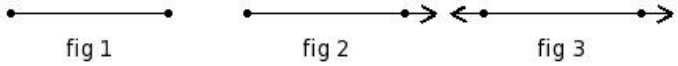
EduSahara™ Assignment

Name : Line Concepts

Chapter : Lines and Angles

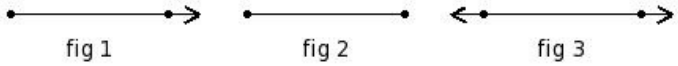
Grade : SSC Grade IX

1. Which of the following figures represent a line?



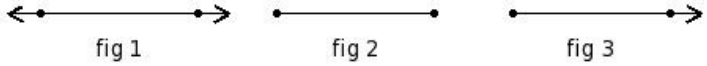
(i) fig 2 (ii) fig 1 (iii) fig 3

2. Which of the following figures represent a ray?



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

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



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

4. Points lying on the same line are called

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

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

(i) 2 (ii) 3 (iii) 4 (iv) 1 (v) 6

6. Identify the figure below

(i) octagon (ii) angle (iii) line (iv) quadrilateral (v) nonagon

7. Multiple lines drawn on a plane are called

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

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

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

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

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

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

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

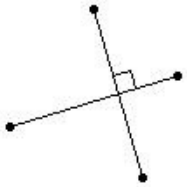
11. Two lines meeting at a point and making an angle of 90° at the meeting point are called

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

12. The following lines represent

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

13. The following lines represent



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

14. The following lines represent

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

15. The representation $\overleftrightarrow{BC}$ indicates

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

16. The representation $\overline{AB}$ indicates

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

17. The representation $\overrightarrow{DE}$ indicates

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

18. Which of the following are true?

a) The length of a line segment cannot be determined
b) A line has an infinite number of points on it
c) Small letters are used to represent lines
d) Capital letters are used to represent points
e) A ray has an infinite number of points on it

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

19. Which of the following are true?

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

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

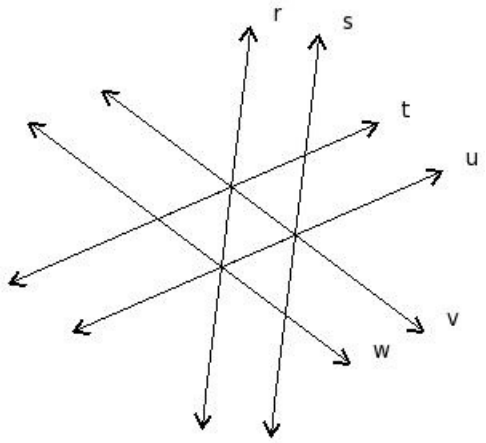
20. Which of the following are true?

a) If $w \perp x$ and $x \perp y$, then $w \perp y$
b) If two lines are parallel to the same line, then they are perpendicular to each other
c) If $w \parallel x$ and $x \parallel y$, then $w \parallel y$
d) If two lines are parallel to the same line, then they are parallel to each other
e) If $w \perp x$ and $w \perp y$, then $x \perp y$

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

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

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



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

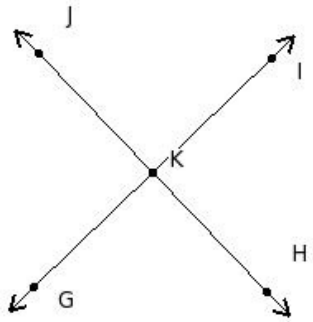
22. Which of the following are true with respect to lines f , g , h , i where $f \parallel g$, $g \perp h$, $h \perp i$?

a) $f \perp i$
b) $f \parallel h$
c) $h \parallel i$
d) $g \parallel i$
e) $f \parallel i$

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

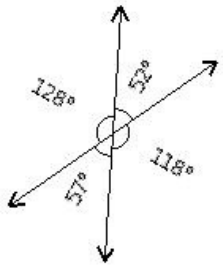
23. Which of the following points are collinear?

a) K, J, I
b) H, K, I
c) G, K, I
d) I, K, J
e) J, K, H

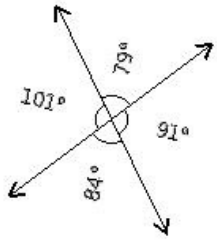


(i) {d,a,c} (ii) {b,e,c} (iii) {a,c} (iv) {c,e} (v) {b,e}

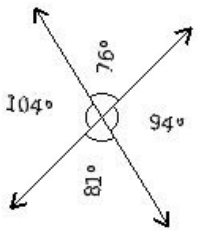
24. Which of the given figures is correct?



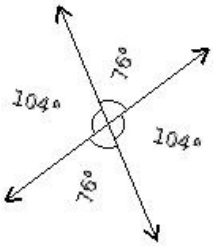
I



II



III



IV

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

25. Consider the following figure $\overleftrightarrow{GA}$. State which of the following statements are true?

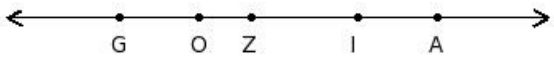
a) G,A are end points of line segment
$\overline{OI}$

b) G,A are points on the line segment
$\overline{OI}$

c) Z,I are end points of line segment
$\overline{IG}$

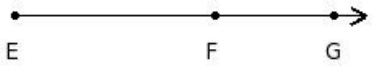
d) G,O,Z,A,I are points on the line
$\overleftrightarrow{GA}$

e) G,A are end points of line segment
$\overline{GA}$



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

26. In the figure below, if $EF = 12.30$ cm and $FG = 7.30$ cm, find $EG = ?$



(i) 21.60 cm (ii) 20.60 cm (iii) 18.60 cm (iv) 17.60 cm (v) 19.60 cm

Assignment Key

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