EduSahara™ Assignment

Name : Line Concepts

Chapter : Lines and Angles

Grade : SSC Grade VII

1. Which of the following figures represent a line?

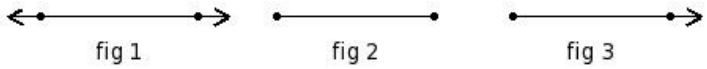


fig 1 fig 2 fig 3

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

2. Which of the following figures represent a ray?

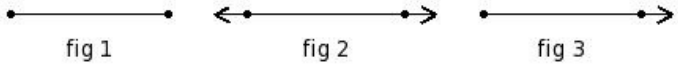


fig 1 fig 2 fig 3

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

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

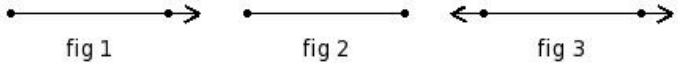


fig 1 fig 2 fig 3

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

4. Points lying on the same line are called

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

5. Identify the figure below

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

6. Multiple lines drawn on a plane are called

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

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

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

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

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

9. 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

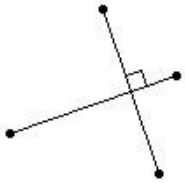
10. Two lines meeting at a point and making an angle of 90° at the meeting point are called

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

11. The following lines represent

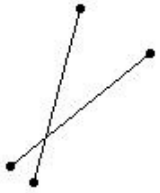
(i) intersecting lines (ii) coplanar lines (iii) concurrent lines (iv) parallel lines (v) perpendicular lines

12. The following lines represent



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

13. The following lines represent



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

14. The representation $\overleftrightarrow{KL}$ indicates

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

15. The representation $\overline{EF}$ indicates

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

16. The representation $\overrightarrow{GH}$ indicates

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

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

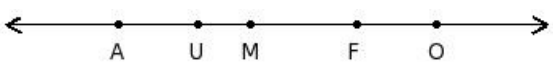
a) A,O are end points of line segment $\overline{UF}$

b) M,F are end points of line segment $\overline{FA}$

c) A,O are end points of line segment $\overline{AO}$

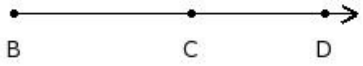
d) A,U,M,O,F are points on the line $\overleftrightarrow{AO}$

e) A,O are points on the line segment $\overline{UF}$



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

18. In the figure below, if $BC = 10.90$ cm and $CD = 8.20$ cm, find $BD = ?$



(i) 17.10 cm (ii) 21.10 cm (iii) 20.10 cm (iv) 19.10 cm (v) 18.10 cm

19. Which of the following are true?

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

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

20. Which of the following are true?

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

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

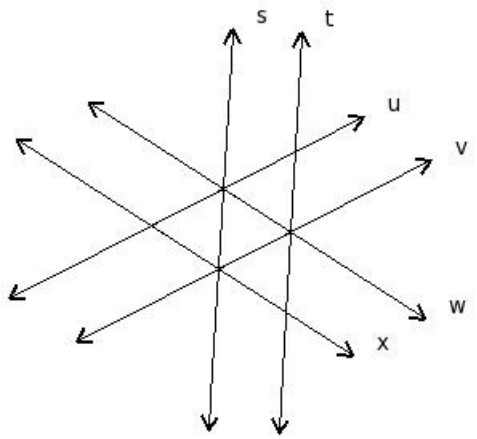
21. Which of the following are true?

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

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

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

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



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

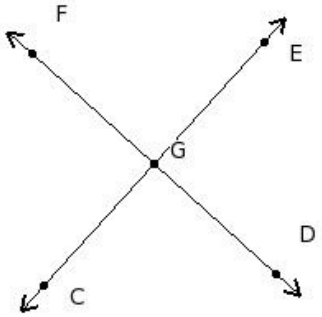
23. Which of the following are true with respect to lines d , e , f , g where d ∥ e , e ⊥ f , f ⊥ g?

a) d⊥g
b) d∥g
c) f∥g
d) d∥f
e) e∥g

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

24. Which of the following points are collinear?

a) C,G,E
b) G,F,E
c) F,G,D
d) D,G,E
e) E,G,F



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

Assignment Key

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