Name: Lines and Angles

Chapter: Basic Geometrical Ideas

Grade: CBSE Grade VI

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1. Which of the following figures represent a line?



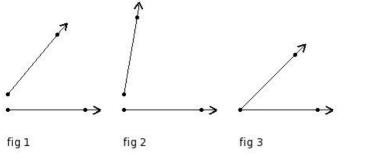
- (i) fig 1 (ii) fig 2 (iii) fig 3
- 2. Which of the following figures represent a ray?

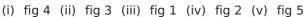


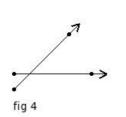
- (i) fig 2 (ii) fig 1 (iii) fig 3
- 3. Which of the following figures represent a line segment?

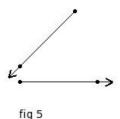


- (i) fig 2 (ii) fig 3 (iii) fig 1
- 4. Points lying on the same line are called
 - (i) semi-linear points (ii) concurrent points (iii) collinear points (iv) non-linear points (v) linear points
- 5. Every simple closed curve divides a plane into how many sets of points?
 - (i) 2 (ii) 4 (iii) 3 (iv) 6 (v) 1
- 6. Which of the following figures represent an angle?

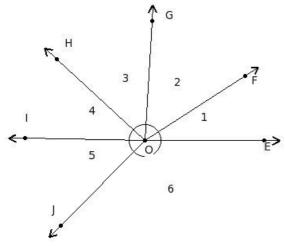




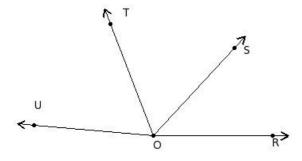




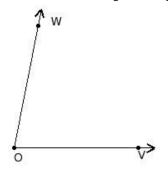
7. The name of angle 1 in the given figure is



- (i) $\angle GOH$ (ii) $\angle EOF$ (iii) $\angle IOJ$ (iv) $\angle HOI$ (v) $\angle JOE$
- 8. Which of the following is the largest angle in the given figure?



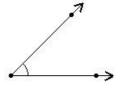
- (i) ∠ROT (ii) ∠ROU (iii) ∠SOU (iv) ∠SOT (v) ∠ROS
- 9. The name of the given angle is



- (i) \angle VW (ii) \angle VOW (iii) \angle VWO (iv) \angle WVO (v) \triangle VOW
- 10. Identify the figure below



- (i) quadrilateral (ii) pentagon (iii) line (iv) hexagon (v) angle
- 11. Identify the figure below



- (i) heptagon (ii) circle (iii) hexagon (iv) angle (v) decagon
- 12. Multiple lines drawn on a plane are called
 - (i) intersecting lines (ii) perpendicular lines (iii) parallel lines (iv) coplanar lines (v) concurrent lines

14.	Multiple lines which pass through the same point are called (i) perpendicular lines (ii) intersecting lines (iii) coplanar lines (iv) parallel lines (v) concurrent lines
15.	A line that intersects two lines at two different points is called (i) concurrent lines (ii) perpendicular lines (iii) parallel lines (iv) coplanar lines (v) transversal
16.	Two lines meeting at a point and making an angle of 90° at the meeting point are called (i) intersecting lines (ii) concurrent lines (iii) perpendicular lines (iv) parallel lines (v) coplanar lines
17.	The following lines represent (i) intersecting lines (ii) concurrent lines (iii) perpendicular lines (iv) coplanar lines (v) parallel lines
18.	The following lines represent (i) parallel lines (ii) intersecting lines (iii) coplanar lines (iv) perpendicular lines (v) concurrent lines
19.	The following lines represent (i) intersecting lines (ii) parallel lines (iii) perpendicular lines (iv) concurrent lines (v) coplanar lines
20.	The representation BC indicates (i) line segment (ii) angle (iii) ray (iv) arc (v) line
21.	The representation \overline{FG} indicates (i) ray (ii) arc (iii) angle (iv) line (v) line segment
22.	The representation \overrightarrow{JK} indicates (i) line (ii) angle (iii) arc (iv) line segment (v) ray

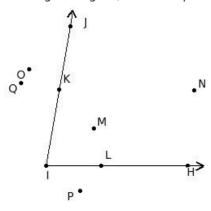
(i) concurrent lines (ii) parallel lines (iii) intersecting lines (iv) perpendicular lines (v) coplanar lines

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

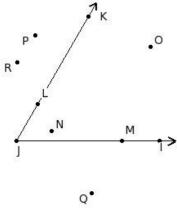
23. In the figure below, if OP = 9.90 cm and PQ = 9.70 cm, find OQ = ?

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

24. In the given figure, write the points belonging to the angle

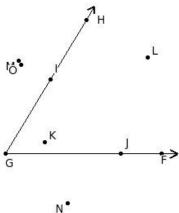


- (i) $\{L,I,H,K\}$ (ii) $\{L,J,I,H,K\}$ (iii) $\{M,N\}$ (iv) $\{O,Q,P\}$ (v) $\{L,J,I,H,K,M,P\}$
- 25. In the given figure, write the points belonging to the interior of the angle



- (i) $\{O,N,M,P\}$ (ii) $\{R,Q,P\}$ (iii) $\{O,N\}$ (iv) $\{I,J,L,M,K\}$ (v) $\{N\}$

- 26. In the given figure, write the points belonging to the exterior of the angle



- (i) $\{N,O,M\}$ (ii) $\{N,O,M,H,L\}$ (iii) $\{L,K\}$ (iv) $\{I,G,F,H,J\}$ (v) $\{O,M\}$

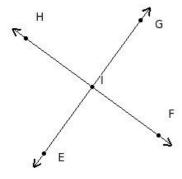
- 27. Which of the following are true?
 - a) A line has an infinite number of points on it
 - b) Capital letters are used to represent points
 - c) The length of a line segment cannot be determined
 - d) Small letters are used to represent lines
 - e) A ray has an infinite number of points on it
 - (i)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

28. 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) If two lines have infinite common points, then the two lines are concurrent
- d) A straight line meets another straight line at atmost one point
- e) If two lines have no common point, then the lines are parallel
- (i) $\{c,b\}$ (ii) $\{c,e,a\}$ (iii) $\{c,d\}$ (iv) $\{c,a\}$ (v) $\{a,b,d,e\}$

29. Which of the following points are collinear?

- a) I,H,G
- b) F,I,G
- c) H,I,F
- d) G,I,H
- e) E,I,G



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

		А	ssignment Key			
1) (i)	2) (i)	3) (iii)	4) (iii)	5) (iii)	6) (ii)	
7) (ii)	8) (ii)	9) (ii)	10) (iii)	11) (iv)	12) (iv)	
13) (ii)	14) (v)	15) (v)	16) (iii)	17) (v)	18) (iv)	
19) (i)	20) (v)	21) (v)	22) (v)	23) (iii)	24) (ii)	
25) (iii)	26) (i)	27) (iii)	28) (v)	29) (iv)		

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