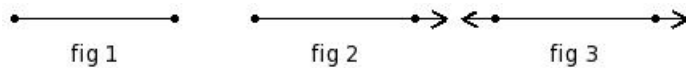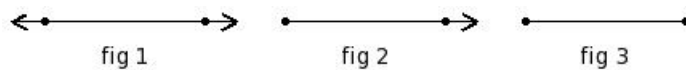# EduSahara™ Learning Center Assignment

Grade : Class VII, SSC
Chapter : Lines and Angles
Name : Line Concepts
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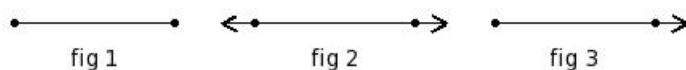1. Which of the following figures represent a line?

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

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2. Which of the following figures represent a ray?

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

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

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

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4. Points lying on the same line are called

(i) non-linear points (ii) linear points   (iii) concurrent points

(iv) semi-linear points (v) collinear points

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5. Identify the figure below

(i) line (ii) decagon (iii) nonagon (iv) octagon (v) hexagon

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6. Multiple lines drawn on a plane are called

(i) concurrent lines (ii) perpendicular lines (iii) parallel lines

(iv) intersecting lines (v) coplanar lines

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

(i) intersecting lines (ii) concurrent lines (iii) perpendicular lines

(iv) coplanar lines   (v) parallel lines

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

(i)   intersecting lines (ii) perpendicular lines (iii) concurrent lines

(iv) parallel lines   (v) coplanar lines

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

(i)   coplanar lines (ii) concurrent lines   (iii) transversal

(iv) parallel lines   (v) perpendicular lines

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

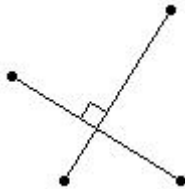at the meeting point are called

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

(iv) perpendicular lines (v) intersecting lines
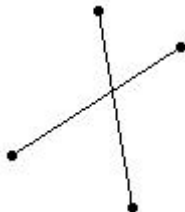
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11. The following lines represent

(i)   concurrent lines (ii) intersecting lines   (iii) coplanar lines

(iv) parallel lines   (v) perpendicular lines

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12. The following lines represent

(i)   intersecting lines (ii) perpendicular lines (iii) coplanar lines

(iv) parallel lines   (v) concurrent lines

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13. The following lines represent

(i)   perpendicular lines (ii) parallel lines   (iii) coplanar lines

(iv) intersecting lines   (v) concurrent lines

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

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

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

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

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

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

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17. Consider the following figure $\overleftrightarrow{BA}$.

    State which of the following statements are true?

    a) K , M are end points of line segment $\overline{MB}$

    b) B , A are end points of line $\overleftrightarrow{BA}$

    c) B , A are end points of line segment $\overline{UM}$

    d) B , U , K , A , M are points on the line $\overleftrightarrow{BA}$

    e) B , A are points on the line segment $\overline{UM}$
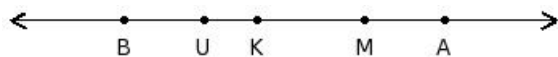
    (i) {a,b} (ii) {c,d} (iii) {b,d} (iv) {e,a,b} (v) {c,d,b}

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18. In the figure below, if CD = 5.00 cm and DE = 11.40 cm ,find CE = ?

    (i) 16.40 cm (ii) 18.40 cm (iii) 15.40 cm (iv) 17.40 cm (v) 14.40 cm

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

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

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20. Which of the following are true?

    a) Only one straight line can be drawn between any two points

    b) If two lines have no common point, then the lines are parallel

    c) If a line cuts another line at more than one point, then one of the line is curved

    d) If two lines have infinite common points, then the two lines are concurrent

    e) A straight line meets another straight line at atmost one point

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

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21. Which of the following are true?

    a) If two lines are parallel to the same line, then they are perpendicular to each other

    b) If two lines are parallel to the same line, then they are parallel to each other

    c) If $i \parallel j$ and $j \parallel k$, then $i \parallel k$

    d) If $i \perp j$ and $j \perp k$, then $i \perp k$

    e) If $i \perp j$ and $i \perp k$, then $j \perp k$

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

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22. 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) $r \parallel u$

    c) w is the transversal of t & r

    d) r is the transversal of t & v

    e) u is the transversal of r & s

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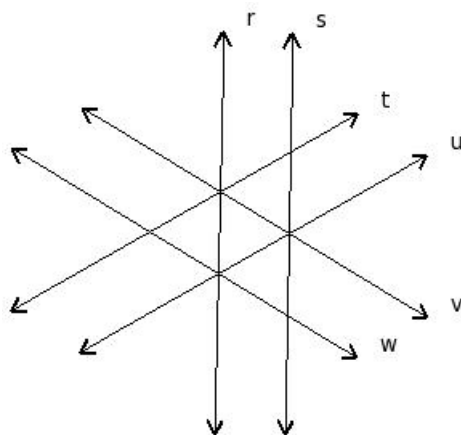
(i) {d,c} (ii) {a,c,e,f} (iii) {b,a} (iv) {b,d,e} (v) {b,f,a}

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23. Which of the following are true with respect to lines r , s , t , u where r∥s , s⊥t , t⊥u?

    a) r ∥ u

    b) s ∥ u

    c) t ∥ u

    d) r ⊥ u

    e) r ∥ t

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

24. Which of the following points are collinear?

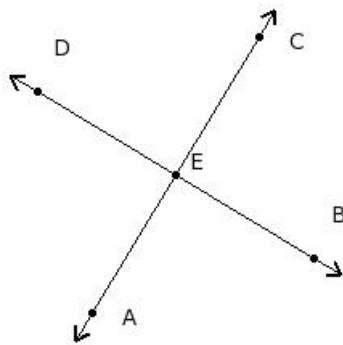   a) A , E , C

    b) B , E , C

    c) D , E , B

    d) E , D , C

    e) C , E , D

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

Assignment Key

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