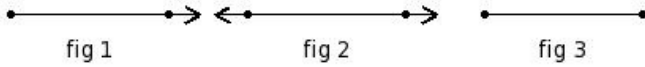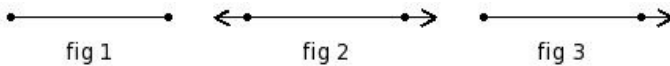1. Which of the following figures represent a line?

    fig 1   fig 2   fig 3

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

2. Which of the following figures represent a ray?

    fig 1   fig 2   fig 3

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

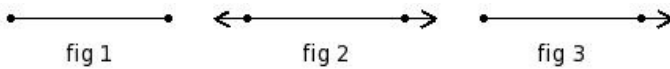3. Which of the following figures represent a line segment?

    fig 1   fig 2   fig 3

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

4. Identify the figure below

    (i) pentagon (ii) line (iii) nonagon (iv) heptagon (v) circle

5. Multiple lines drawn on a plane are called

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

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

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

7. Multiple lines which pass through the same point are called
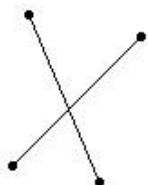
    (i) concurrent lines (ii) parallel lines (iii) perpendicular lines (iv) coplanar lines (v) intersecting lines

8. The following lines represent

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

9. The following lines represent

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

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

   a) U,E are end points of line segment
      $\overline{TD}$

   b) U,E are points on the line segment
      $\overline{TD}$
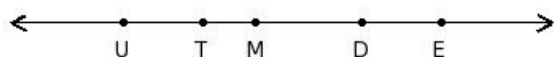
   c) M,D are end points of line segment
      $\overline{DU}$

   d) U,E are end points of line segment
      $\overline{UE}$

   e) U,T,M,E,D are points on the line
      $\overleftrightarrow{UE}$

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

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11. The representation $\overleftrightarrow{DE}$ indicates

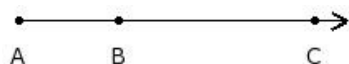   (i) ray (ii) line (iii) angle (iv) line segment (v) arc

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

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

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13. The representation $\overrightarrow{EF}$ indicates

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

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14. In the figure below, if $AB = 6.10$ cm and $BC = 12.00$ cm, find $AC = ?$

   (i) 19.10 cm (ii) 16.10 cm (iii) 20.10 cm (iv) 17.10 cm (v) 18.10 cm

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15. Which of the following are true?

   a) A ray 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) A line has an infinite number of points on it
   e) Small letters are used to represent lines

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

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16. 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 no common point, then the lines are parallel
   e) If two lines have infinite common points, then the two lines are concurrent

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

17. 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 $x\|y$ and $y\|z$, then $x\|z$

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

d) If $x\perp y$ and $y\perp z$, then $x\perp z$

e) If $x\perp y$ and $x\perp z$, then $y\perp z$

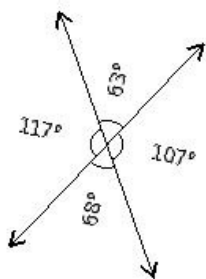(i) {a,b} (ii) {d,c,b} (iii) {e,a,b} (iv) {b,c} (v) {d,c}

---

18. Which of the following are true with respect to lines r , s , t , u where $r\|s , s\perp t , t\perp u$?

a) $r\|t$

b) $s\|u$

c) $r\|u$

d) $t\|u$

e) $r\perp u$

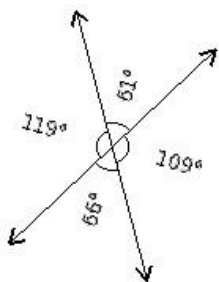(i) {e,a,b} (ii) {a,b} (iii) {b,c} (iv) {d,c,b} (v) {d,c}
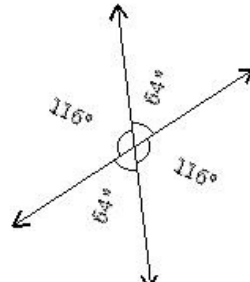

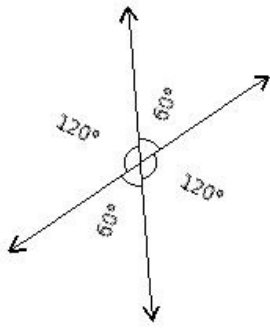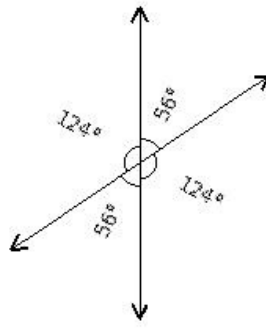19. Which of the given figures is correct?
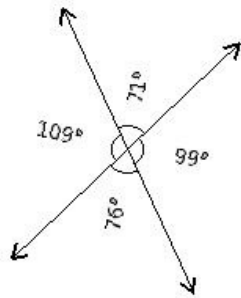

I
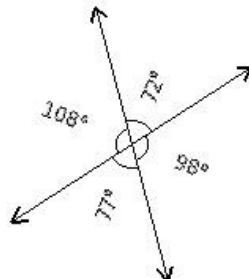
II

III

IV

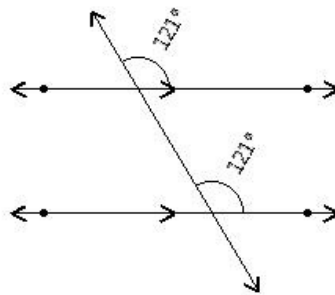(i) III (ii) I (iii) II (iv) IV

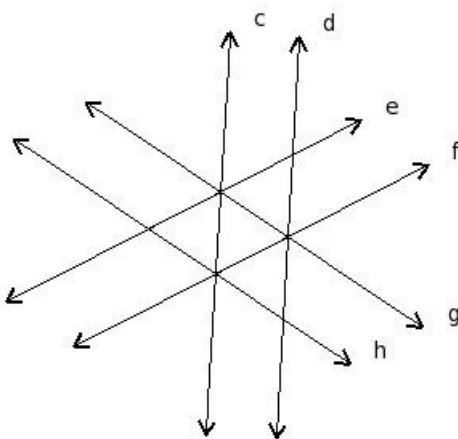20. Which of the given figures is wrong?

I

II

III

IV

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

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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) f is the transversal of c & d
b) c ‖ f
c) c ‖ d
d) c is the transversal of e & g
e) h is the transversal of e & c
f) g is the transversal of e & f

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

Assignment Key

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