



MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

LINE SEGMENT, RAY AND LINE

Example

1. Measure the length of a given line segment

\overline{AB} .



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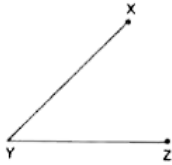
2. Draw a line segment of length 6.8 cm.



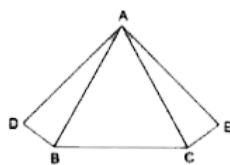
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Exercise 11 A

1. Name all the line segments in each of the following figures:



(i)



(ii)

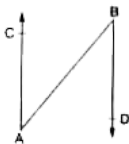


(iii)

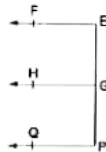


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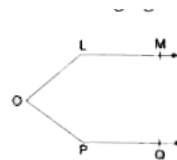
2. Identify and name of line segments and rays in each of the following figures :



(i)



(ii)



(iii)



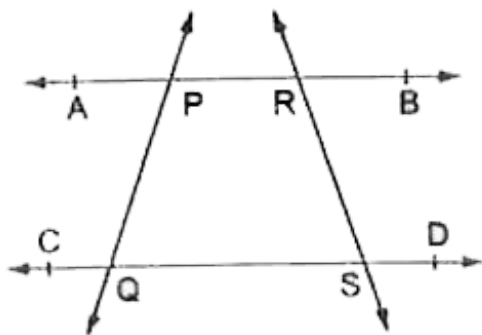
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3. In the adjoining figure, name

(i) four line segments

(ii) four rays ,

(iii) two non-intersecting line segments



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4. What do you mean by collinear points ?

How many lines can you draw passing through three collinear points ?

Given three collinear points A,B and C . How many line segments do they determine ?

Name them.



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5. In the adjoining figure , name :

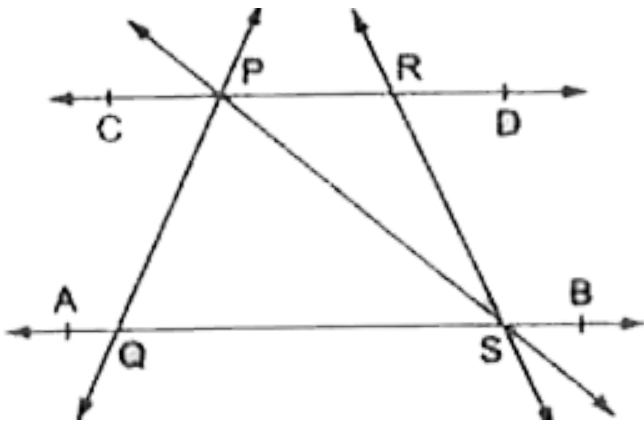
(i) four pairs of intersecting lines

(ii) four collinear points

(iii) three noncollinear points

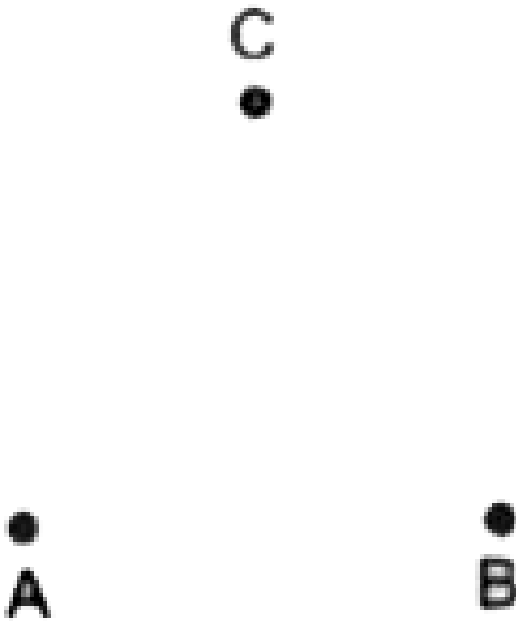
(iv) three concurrent lines

(v) three lines whose point of intersection is P.



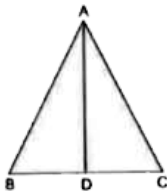
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6. Name three noncollinear points A,B,C as shown . Draw line through these points taking two at a time. Name the lines . How many such different lines be drawn ?

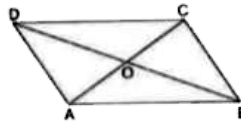


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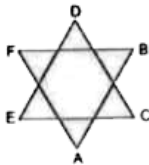
7. Count the number of line segments drawn in each of the following figures and name them.



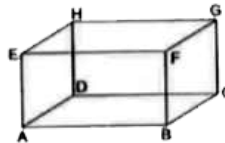
(i)



(ii)



(iii)



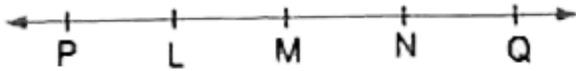
(iv)



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8. Consider the line \overleftrightarrow{PQ} given below and find whether the given statements are true or false

M is a point on ray \overrightarrow{NQ}



- A. True
- B. False
- C. Cannot be determined
- D. None of the above

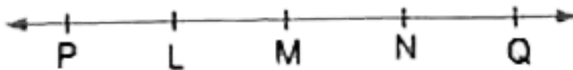
Answer: B



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9. Consider the line \overleftrightarrow{PQ} given below and find whether the given statements are true or false

L is a point on ray \overrightarrow{MP}



A. True

B. False

C. Cannot be determined

D. None of the above

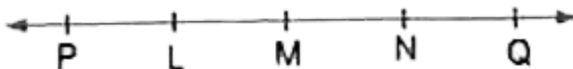
Answer: A



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10. Consider the line \overleftrightarrow{PQ} given below and find whether the given statements are true or false

Ray \overrightarrow{MQ} is different from ray \overrightarrow{NQ} .



A. True

B. False

C. Cannot be determined

D. None of the above

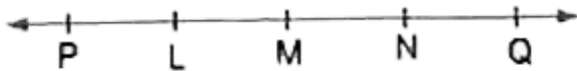
Answer: A



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11. Consider the line \overleftrightarrow{PQ} given below and find whether the given statements are true or false

L, M and N are points on line segment \overline{LN} .



- A. True
- B. False
- C. Cannot be determined
- D. None of the above

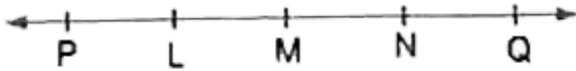
Answer: A



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12. Consider the line \overleftrightarrow{PQ} given below and find whether the given statements are true or false

Ray \overrightarrow{LP} is different from ray \overrightarrow{LQ} .



- A. True
- B. False
- C. Cannot be determined
- D. None of the above

Answer: A



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13. Write 'T' for true and 'F' for false in case of each of the following statements

Every point has a size.

A. True

B. False

C. Cannot be determined

D. None of the above

Answer: B



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14. Write 'T' for true and 'F' for false in case of each of the following statements

A line segment has no length .

A. True

B. False

C. Cannot be determined

D. None of the above

Answer: B



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15. Write 'T' for true and 'F' for false in case of each of the following statements

Every ray has a finite length.

A. True

B. False

C. Cannot be determined

D. None of the above

Answer: B



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16. Write 'T' for true and 'F' for false in case of each of the following statements

The ray \overrightarrow{AB} is the same as the ray \overrightarrow{BA}

- A. True
- B. False
- C. Cannot be determined
- D. None of the above

Answer: False



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17. Write 'T' for true and 'F' for false in case of each of the following statements

The line segment \overline{AB} is the same as the line segment \overline{BA} .

A. True

B. False

C. Cannot be determined

D. None of the above

Answer: A



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18. Write 'T' for true and 'F' for false in case of each of the following statements

The line \overleftrightarrow{AB} is the same as the line \overleftrightarrow{BA}

A. True

B. False

C. Cannot be determined

D. None of the above

Answer: A



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19. Write 'T' for true and 'F' for false in case of each of the following statements

Two points A and B in a plane determine a unique line segment.



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20. Write 'T' for true and 'F' for false in case of the following statement

Two intersecting lines intersect at a point.



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21. Write 'T' for true and 'F' for false in case of each of the following statements

Two intersecting planes intersect at a point.



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22. Write 'T' for true and 'F' for false in case of each of the following statements

If points A,B,C are collinear and points C,D,E are collinear then the points A,B,C,D,E are collinear.



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23. Write 'T' for true and 'F' for false in case of each of the following statements

One and only one ray can be drawn with a given end point.



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24. Write 'T' for true and 'F' for false in case of each of the following statements

One and only one line can be drawn to pass through two given points.



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25. Write 'T' for true and 'F' for false in case of each of the following statements

An unlimited number of lines can be drawn to pass through a given point.



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26. Fill in the blanks :

A line segment has a ___ length .

A. 1 cm

B. 2 cm

C. Indefinite

D. definite

Answer: D



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27. Fill in the blanks :

A ray has _____ end point.

A. 1

B. 2

C. 3

D. 4

Answer: A



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28. Fill in the blanks :

A line has ____ end point.

A. 1

B. 2

C. No

D. 3

Answer: C



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29. Fill in the blanks :

A ray has no ____ length .



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30. Fill in the blanks :

A line ____ be drawn on a paper .



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Exercise 11 B

1. Which of the following has no end points?

A. A line segment

B. A ray

C. A line

D. None of these

Answer: C



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2. Which of the following has one end point?

A. A line

B. A ray

C. A line segment

D. None of these

Answer: B



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3. Which of the following has two end points?

A. A line segment

B. A ray

C. A line

D. None of these

Answer: A



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4. Which of the following has definite length ?

A. A line

B. A line segment

C. A ray

D. None of these

Answer: B



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5. Which of the following can be drawn on a piece of paper ?

A. A line

B. A line segment

C. A ray

D. None of these

Answer: B



6. How many lines can be drawn passing through a given point ?

- A. One only
- B. Two
- C. Three
- D. Unlimited number

Answer: D



7. How many lines can be drawn passing through two given points ?

A. One only

B. Two

C. Three

D. Unlimited number

Answer: A



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8. Two planes intersect

A. at a point

B. in a plane

C. in a line

D. None of these

Answer: C



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9. Two lines intersect

A. at a point

B. at two points

C. at an infinite number of points

D. in a line

Answer: A



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10. Two points in a plane determine

- A. exactly one line segment
- B. exactly two line segment
- C. an infinite number of line segments
- D. None of these

Answer: A



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11. The minimum number of points of intersection of three lines in a plane is

A. 1

B. 2

C. 3

D. 0

Answer: D



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12. The maximum number of points of intersection of three lines in a plane is

A. 0

B. 1

C. 2

D. 3

Answer: D



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13. Choose the correct statement :

A. every line has a definite length

B. every ray has a definite length

C. every line segment has a definite length

D. None of these

Answer: C



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14. Choose the false statement :

A. Line \overleftrightarrow{AB} is the same as line \overleftrightarrow{BA}

B. Ray \overrightarrow{AB} is the same as ray \overrightarrow{BA}

C. Line segment \overline{AB} is the same as the line segment \overline{BA}

D. None of these

Answer: B



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15. How many rays can be drawn with a given point as the initial point ?

A. One

B. Two

C. An unlimited number

D. A limited number only

Answer: C



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