MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

INTRODUCTION TO EUCLID'S GEOMETRY

Others

1. Define the following terms: Line segment

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2. Define the following terms: Collinear points

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3. Define the following terms: Parallel lines

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4. Define the following terms: Intersecting lines

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5. Define the following terms: Concurrent lines

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6. Define the following terms: Ray

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7. Define the following terms: Half-line

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8. How many lines can pass through a given points? In how many points can two distinct lines at the most intersect ?

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9. Given two points $P \, and \, Q$, find how many line segments do they deter-mine. Name the line segments determined by the three collinear points $P, \ Q \, and \, R.$

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10. Write the truth value (T/F) of each of the following statements: Two lines intersect in a point. Two lines may intersect in two points. A segment has no length. Two distinct points

always determine a line. Every ray has a finite length. A ray has one end-point only. A segment has one end-point only. The ray AB is same as ray BA Only a single line may pass through a given point. Two lines are coincident if they have only one point in common.

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11. In Figure , name the following Figure Five line segments (ii) Five rays Four

collinear points Two pairs of non-intersecting line segments.

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12. Two distinct points in a plane determine a ..... line

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13. Two distinct ..... in a plane cannot have more than one point in common.

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14. Given a line and a point, not on the line, there is one and only.... line which passes through the given point and is ..... to the given line.

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15. A line separates a plane into ..... parts namely the ..... and the .... itself.

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16. How many least number of distinct points determine a unique line?

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17. How many lines can be drawn through both of the given points?

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18. How many lines can be drawn through a given point.

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19. In how many points two distinct lines can intersect?

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20. In how many points a line, not in a plane, can intersect the plane?

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21. In how many points two distinct planes can intersect?

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22. In how many lines two distinct planes can intersect?

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23. How many least number of distinct points determine a unique plane?

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24. Given three distinct points in a plane, how many lines can be drawn by joining them?

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25. How many planes can be made to pass through a line and a point not on the line?

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26. How many planes can be made to pass through two points?

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27. How many planes can be made to pass through three distinct points?

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