



MATHS

BOOKS - CHETANA MATHS (MARATHI ENGLISH)

BASIC CONCEPTS IN GEOMETRY

Example

1. Rewrite the following statement in 'if-then' form. 'Diagonals of a parallelogram bisect each

other.'



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2. Write betweenness for the points P,Q and R if $d(P, Q) = 3$, $d(Q, R) = 4$, $d(P, R) = 7$.



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3. M is midpoint of seg PQ. Find PM, if PQ=13 cm.



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4. Co-ordinates of points P and Q are (-2,0) and (2,0) respectively .Find $d(P, Q)$.



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5. If $P - Q - R$ and if $d(P, R) = 10$, $d(Q, R) = 3$, then find $d(P, Q)$.



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6. Find $d(A, C)$ if coordinates of A and C are $(1, 2)$ and $(4, 6)$ respectively.



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7. Co-ordinates of point P are $(2,0)$. Find the co-ordinates of point Q which is 6 units on right of point P .



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8. Write the following statement in 'if-then' form. 'Linear pair angles are supplementary'.



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9. Write the converse of the following. 'If two sides of a triangle are equal, then angles opposite to them are equal'.



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10. If $X-Y-Z$ and if $l(XZ) = 12\sqrt{3}$ and $l(XY) = 3\sqrt{3}$, then find $l(YZ)$. Draw figure.



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11. Write given and to prove for the following statement, "If angles of a linear pair are equal, then each of them is a right angle."



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12. Co-ordinate of a point A is 7. Find Co-ordinates of points at a distance of 7 units from point A.



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13. Write given and to prove for the following statement, Also draw the diagram. "Vertically opposite angles are congruent."



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14. Prove: Diagonals of rectangle are equal.



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