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India's Number 1 Education App

## MATHS

## BOOKS - KALYANI MATHS (ASSAMESE

## ENGLISH)

## COORDINATE GEOMETRY

Example

1. Find the distance between the following pair
$(2,-3)$ and $(-4,1)$

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2. Find the distance between the following pair of points :
$(-3,-6)$ and $(5,-2)$.

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3. If the distance between $(x, 6)$ and $(2,-2)$ is
4. Find $x$.
5. Prove that the points $A(7,10), B(-2,5)$ and
$C(3,-4)$ are the vertices of an isosceles right angled triangle.

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5. Find the coordinates of points equidistant from the three given points $A(5,3), B(5,-5)$ and $C(1,-5)$.

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6. Find the coordinates of the point which divides the join of $(-1,7)$ and $(4,-3)$ in the ratio 2:3.

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7. Find the ratio in which the point $\mathrm{P}\left(\frac{3}{4}, \frac{5}{12}\right)$ divides the line segment joining the points $A$ $\left(\frac{1}{2}, \frac{3}{2}\right)$ and $\mathrm{B}(2,-5)$.
8. Find the ratio in which the point $P(m, 6)$ divide the joint of $A(-4,3)$ and $B(2,8)$. Also determine m .

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9. Let $A(3,-1)$ and $B(8,9)$ be two points
in what ratio does the line $x-y-2=0$ divide the
line segment $A B$.?

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10. Let $A(3,-1)$ and $B(8,9)$ be two points

In what ratio does the $x$-axis intersect the line segment $A B$ ?

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11. If three consecutive vertices of $a$ parallelogram $A B C D$ are $A(1,-2), B(3,6), C(5,10)$, then find the fourth vertex $D$.
12. Find the area of a triangle whose vertices are $A(3,8), B(-4,2)$ and $C(5,-1)$.

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13. $A(-4,-2), B(-3,-5), C(3,-2)$ and $D(2, k)$ at the
vertices of a quadrilateral $A B C D$. Find the value of $k$ if the area of the quadrilateral is 28 square unit.
14. Show that the point $A(-5,1), B(5,5)$ and $C(10,7)$ are collinear.

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15. Find the relation between $x$ and $y$ if the points $A(2,1), B(x, y)$ and $C(7,5)$ are collinear.

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16. Find the area of the triangle $A B C$ with
$A(1,-4)$ and the midpoints of the sides through

A being ( $2,-1$ ) and ( $0,-1$ ).

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