

3055 BA SANGAM COLLEGE

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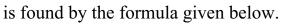


WORKSHEET 17

School: <u>Ba Sangam College</u>	Year / Level: <u>11</u>
Subject: Mathematics	Name of Student:
Strand	5 – COORDINATE GEOMETRY
Sub strand	5.1 – Coordinates
Content Learning Outcome	Explore and analyze two points on a Cartesian plane.

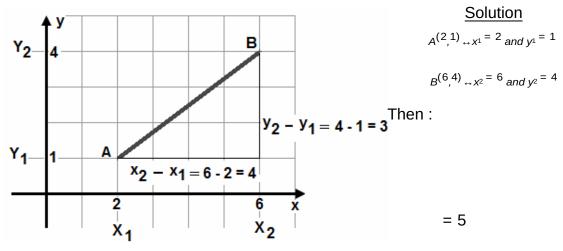
DISTANCE BETWEEN TWO POINTS

If $A(x^1, y^1)$ and $B(x^2, y^2)$ are two points then the distance between these two points





Find the distance between the points A (2, 1) and B (6, 4).



<u>ACTIVITY</u>

DISTANCE BETWEEN POINTS

1. Find the distance between the points (-4,-5) and (1,-2). (2m)

2. Find the length of the line segment whose endpoints are (-3, 4) and (5,4). (2m)

5.2 THE MID POINT FORMULA

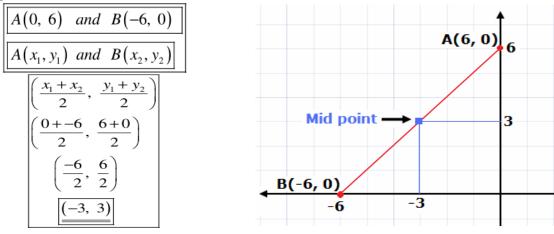
The midpoint of a straight line segment joining the points (x_1, y_1) and (x_2, y_2) is:

midpoint
$$(x, y) = (\frac{x^1 + x^2}{2}, \frac{y^1 + y^2}{2})$$

Example

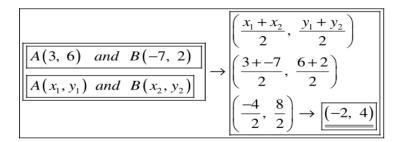
Find the midpoint of $A^{(0,6)}$ and $B^{(-6,0)}$

Solution



Example

Find the midpoint of $A^{(3,6)}$ and $B^{(-7,2)}$.



ACTIVITY

Find the midpoint of the segment connecting the points (6,4) and (3,-4).(2m)
M is the midpoint of . The coordinates of A are (-2,3) and the coordinates of M are (1,0). Find the coordinates of *B*.
(2m)

THE END