



A Level Maths

Topic: Midpoint and Distance

Instructions

Answer all questions. Show complete working. Use the midpoint and distance formulae wherever applicable.

Practice Questions

1. Find the midpoint of the line segment with endpoints $(2, 3)$ and $(4, 7)$.
2. Find the distance between the points $(1, 2)$ and $(4, 6)$.
3. Find the midpoint of the line segment with endpoints $(-3, -2)$ and $(5, 6)$.
4. Calculate the distance between the points $(0, 0)$ and $(5, 12)$.
5. Find the distance between the points $(3, -4)$ and $(-1, 6)$.
6. Find the midpoint of the segment with endpoints $(6, 2)$ and $(-4, -6)$.
7. The midpoint of a line segment is $(3, -1)$ and one endpoint is $(1, 2)$. Find the coordinates of the other endpoint.
8. Find the distance between the points $(-2, -5)$ and $(3, 4)$.
9. Find the midpoint of the line segment joining $(4, -1)$ and $(-2, 3)$.
10. Calculate the distance between the points $(7, 8)$ and $(2, 5)$.

Multiple-Choice Questions

1. The midpoint of the line segment joining $(1, 3)$ and $(5, 7)$ is:
 - A. $(3, 5)$
 - B. $(2, 4)$
 - C. $(4, 6)$
 - D. $(5, 6)$
2. The distance between the points $(1, 1)$ and $(4, 5)$ is:
 - A. 4
 - B. 5
 - C. 3
 - D. $\sqrt{20}$
3. The midpoint of the line segment joining $(-2, 3)$ and $(4, -1)$ is:
 - A. $(1, 1)$
 - B. $(2, 0)$
 - C. $(1, 2)$
 - D. $(3, -2)$
4. The distance between the points $(3, 4)$ and $(7, 1)$ is:
 - A. $\sqrt{10}$
 - B. 5
 - C. $\sqrt{20}$
 - D. $\sqrt{18}$
5. The midpoint of the line segment joining $(2, -3)$ and $(-4, 5)$ is:
 - A. $(-1, 1)$
 - B. $(2, 1)$
 - C. $(0, 1)$
 - D. $(-1, -1)$

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