

Distance and Midpoint Formulas

SHOW ALL ALGEBRAIC STEPS.

Use the DISTANCE FORMULA to find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1) $(-2, 6), (4, -3)$

2) $(-6, -3), (1, -1)$

3) $(3, -2), (7, 4)$

4) $(-4, 8), (-6, 3)$

5) $(3, -5), (5, 4)$

Use the MIDPOINT FORMULA to find the midpoint of the line segment with the given endpoints.

6) $(10, -6), (-4, 4)$

7) $(0, 3), (-6, 0)$

8) $(-5, 5), (10, 8)$

9) $(-7, 6), (-3, -2)$

10) $(-6, 8), (3, -6)$

Use the MIDPOINT FORMULA to find the other endpoint of the line segment with the given endpoints.

11) Endpoint: $(-2, 3)$, midpoint: $(-5, -2)$

12) Endpoint: $(4, -5)$, midpoint: $(6, 10)$

13) Endpoint: $(-9, 7)$, midpoint: $(4, 10)$