

Midpoint and Distance in the Coordinate Plane Assignment

Find the distance between each set of points. Show the formula and all work.

1. $(0, 0)$ and $(4, 3)$

2. $(3, -3)$ and $(2, 7)$

3. $(4, 5)$ and $(-6, 3)$

4. $(-2, 8)$ and $(3, -7)$

5. $(4, 2)$ and $(-2, -4)$

Find the midpoint for each line segment using the formula. Show all work.

6. $(0, 0)$ and $(4, 3)$

7. $(3, -3)$ and $(2, 7)$

8. $(4, 5)$ and $(-6, 3)$

9. $(-2, 8)$ and $(3, -7)$

10. $(4, 2)$ and $(-2, -4)$

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Determine the coordinates of the points needed. Then find the distance of each line segment.

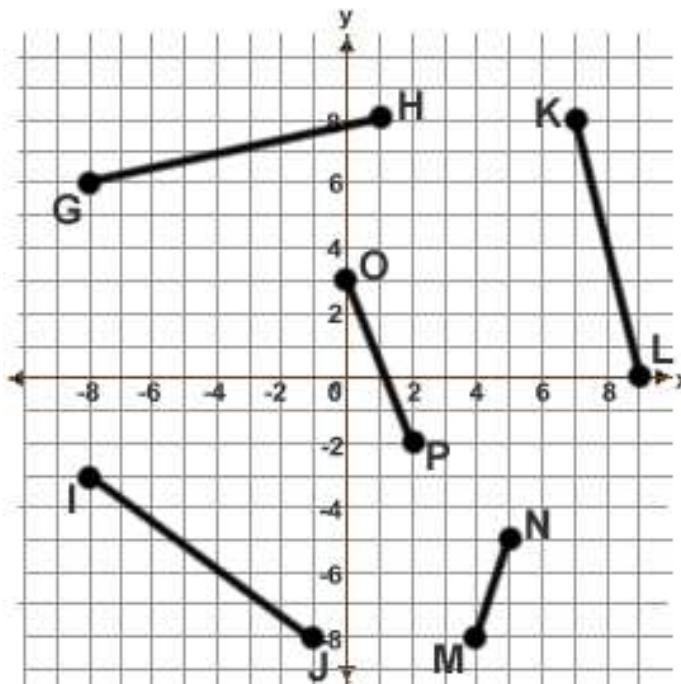
11. GH G(,) H(,)

12. KL K(,) L(,)

13. OP O(,) P(,)

14. IJ I(,) J(,)

15. MN M(,) N(,)



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Answers

1. $d = 5$

2. $d = 6.41$

3. $d = 10.19$

4. $d = 15.81$

5. $d = 8.48$

6. $M(2, 1.5)$

7. $M(2.5, 2)$

8. $M(-1, 4)$

9. $M(0.5, 0.5)$

10. $M(1, -1)$

11. $G(-8, 6)$ $H(1, 8)$ $d = 9.21$

12. $K(7, 8)$ $L(9, 0)$ $d = 8.24$

13. $O(0, 3)$ $P(2, -2)$ $d = 14.5$

14. $I(-8, -3)$ $J(-1, -8)$ $d = 8.6$

15. $M(4, -8)$ $N(5, -5)$ $d = 3.16$