

Assignment

Find the midpoint of the line segment with the given endpoints.

1) $(10, -7), (2, 1)$

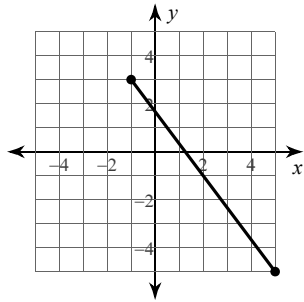
$(6, -3)$

2) $(-9, -2), (-4, -9)$

$(-6\frac{1}{2}, -5\frac{1}{2})$

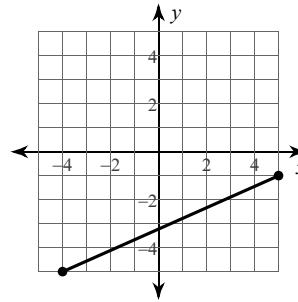
Find the midpoint of each line segment.

3)



$(2, -1)$

4)



$(\frac{1}{2}, -3)$

Find the other endpoint of the line segment with the given endpoint and midpoint.

5) Endpoint: $(-9, 10)$, midpoint: $(3, 10)$

$(15, 10)$

6) Endpoint: $(1, -7)$, midpoint: $(3, -7)$

$(5, -7)$

Find the distance between each pair of points. Leave your answers in simplest radical form.

7) $(-5, 2), (0, -1)$

$\sqrt{34}$

8) $(-7, 5), (3, 3)$

$2\sqrt{26}$

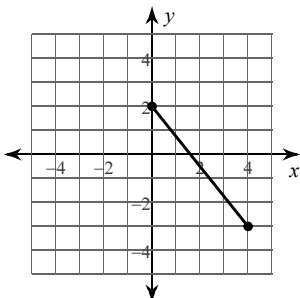
9) $(-2, 6), (-2, -7)$

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10) $(2, 7), (-5, 2)$

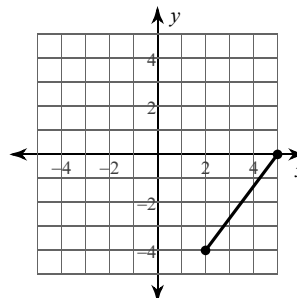
$\sqrt{74}$

11)



$\sqrt{41}$

12)



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