

Unit 6.3 worksheet Midpoint, and distance formula

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

1)  $(-9, 10), (4, -2)$

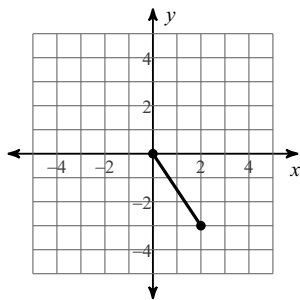
2)  $(0, 7), (-8, -10)$

3)  $(-6.4, -3.8), (9.6, 1.2)$

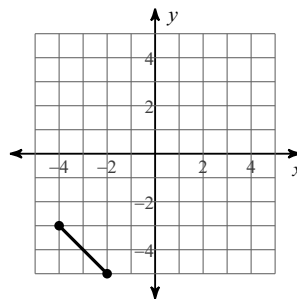
4)  $(1.3, 9.3), (-4, -0.8)$

**Find the midpoint of each line segment. Give answer in reduced fraction form.**

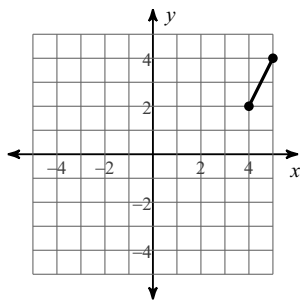
5)



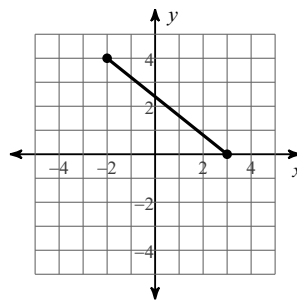
6)



7)



8)



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

9) Endpoint:  $(1.7, -1.6)$ , midpoint:  $(-4.9, 8.8)$

10) Endpoint:  $(-2.2, 4.7)$ , midpoint:  $(8.5, -8.5)$

11) Endpoint:  $(-4, 2)$ , midpoint:  $(-4, 7)$

12) Endpoint:  $(-2, 1)$ , midpoint:  $(1, -6)$

Find the distance between each pair of points. Give answer in simplified radical form.

13)  $(-7, 0), (-1, -1)$

14)  $(2, 0), (6, 2)$

15)  $(8, -8), (4, 6)$

16)  $(-2, 8), (-3, -1)$

17)  $(-8, -1), (7, 4)$

18)  $(-1, -8), (6, 3)$

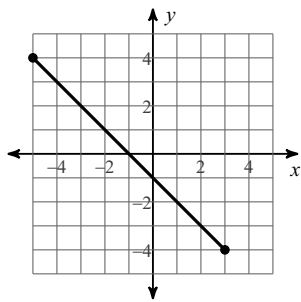
Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

19)  $(-4.7, -6.1), (-4.5, -7.5)$

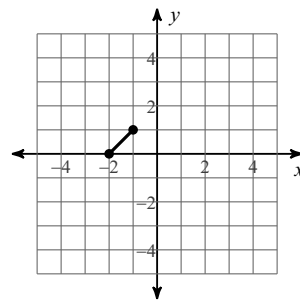
20)  $(7.3, 5.5), (3, -1.5)$

Find the distance between each pair of points. Give answer in simplified radical form.

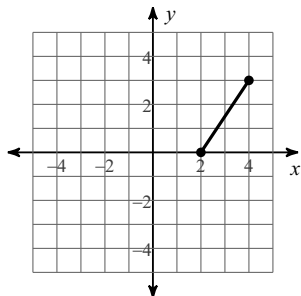
21)



22)



23)



24)

