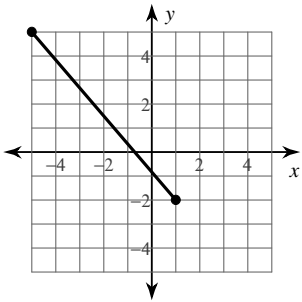


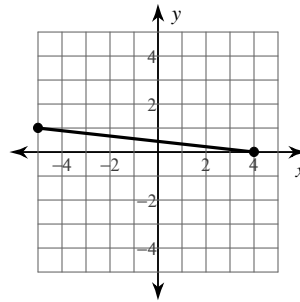
## The Distance Formula

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

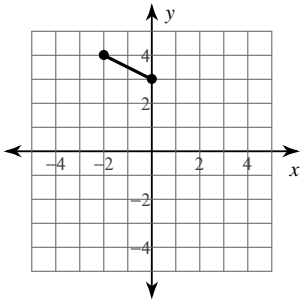
1)



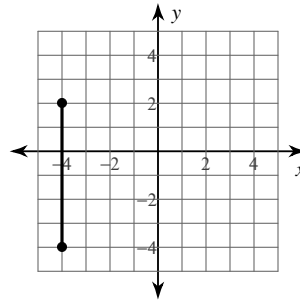
2)



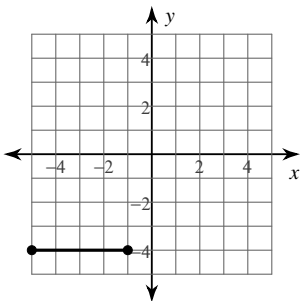
3)



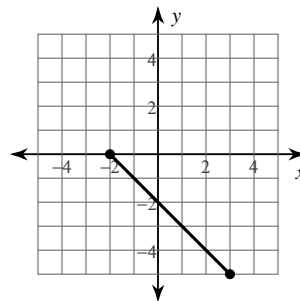
4)



5)



6)



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

8)  $(2, -9), (-1, 4)$

9)  $(5, 9), (-7, -7)$

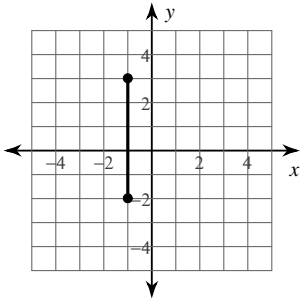
10)  $(8, 5), (-1, 3)$

11)  $(-10, -7), (-8, 1)$

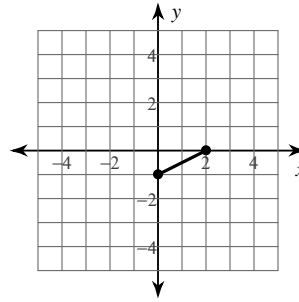
12)  $(-6, -10), (-2, -10)$

**Find the distance between each pair of points.**

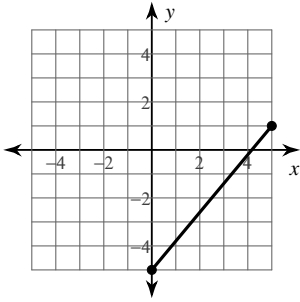
13)



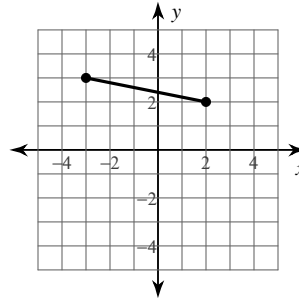
14)



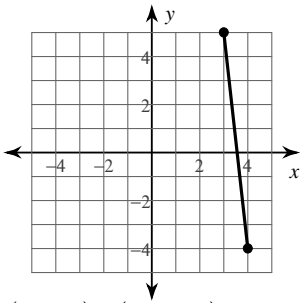
15)



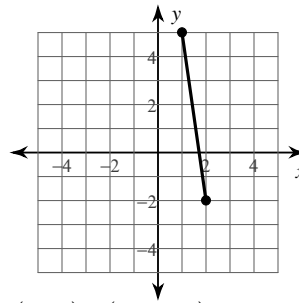
16)



17)



18)



19)  $(0, -2), (-5, -1)$

20)  $(6, 4), (-5, -1)$

21)  $(3, 8), (9, 10)$

22)  $(10, 1), (9, -4)$

23)  $(-8, 10), (-6, 7)$

24)  $(-5, 6), (8, -4)$

**Critical thinking questions:**

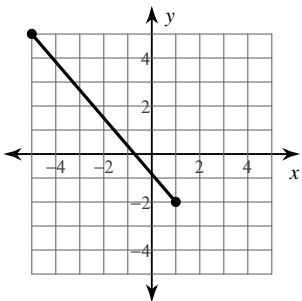
25) Name a point that is  $\sqrt{2}$  away from  $(-1, 5)$ .

26) Name a point that is between 50 and 60 units away from  $(7, -2)$  and state the distance between the two points.

## The Distance Formula

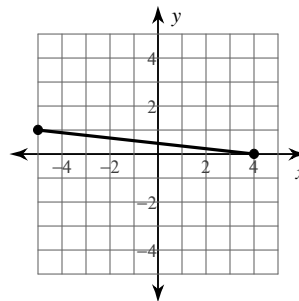
Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1)



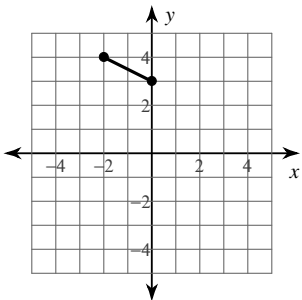
9.2

2)



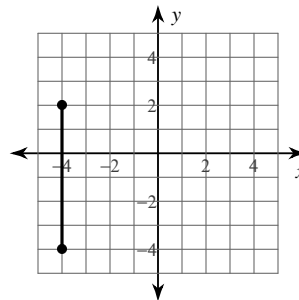
9.1

3)



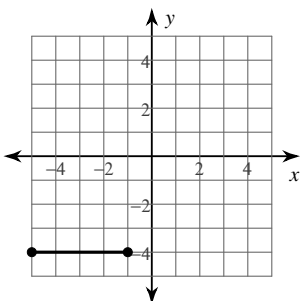
2.2

4)



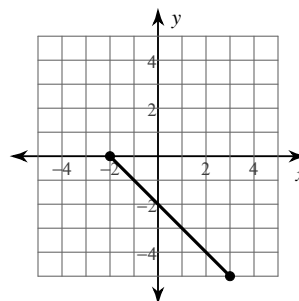
6

5)



4

6)



7.1

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

11.2

8)  $(2, -9), (-1, 4)$ 

13.3

9)  $(5, 9), (-7, -7)$ 

20

10)  $(8, 5), (-1, 3)$ 

9.2

11)  $(-10, -7), (-8, 1)$ 

8.2

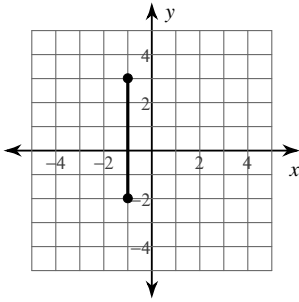
12)  $(-6, -10), (-2, -10)$ 

4

Find the distance between each pair of points.

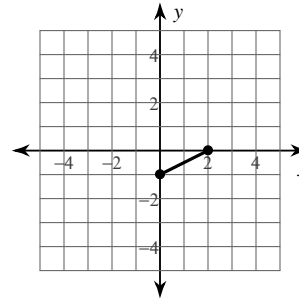
13)

5



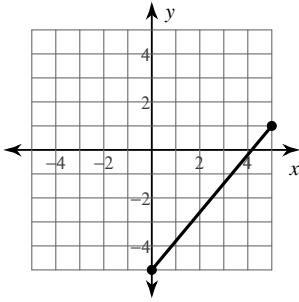
14)

$\sqrt{5}$



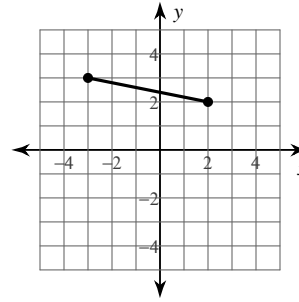
15)

$\sqrt{61}$



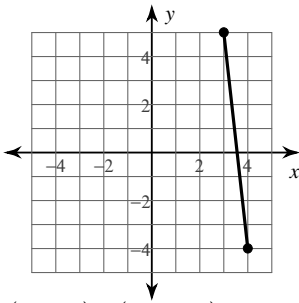
16)

$\sqrt{26}$



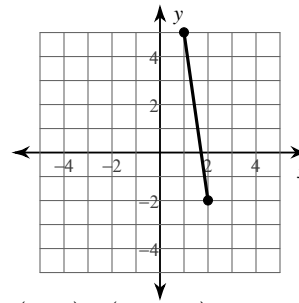
17)

$\sqrt{82}$



18)

$5\sqrt{2}$



19)  $(0, -2), (-5, -1)$

$\sqrt{26}$

20)  $(6, 4), (-5, -1)$

$\sqrt{146}$

21)  $(3, 8), (9, 10)$

$2\sqrt{10}$

22)  $(10, 1), (9, -4)$

$\sqrt{26}$

23)  $(-8, 10), (-6, 7)$

$\sqrt{13}$

24)  $(-5, 6), (8, -4)$

$\sqrt{269}$

**Critical thinking questions:**

25) Name a point that is  $\sqrt{2}$  away from  $(-1, 5)$ .

$(0, 6), (0, 4), (-2, 6),$  or  $(-2, 4)$

26) Name a point that is between 50 and 60 units away from  $(7, -2)$  and state the distance between the two points.

Many answers. Ex:  $(60, -2)$ ; 53 units