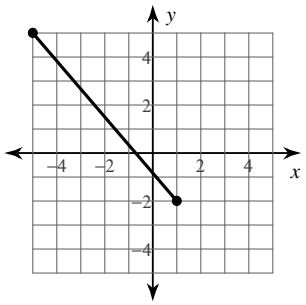
Kuta Software - Infinite Geometry Name_____

The Distance Formula

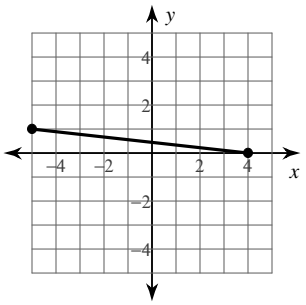
Date_____ Period____

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

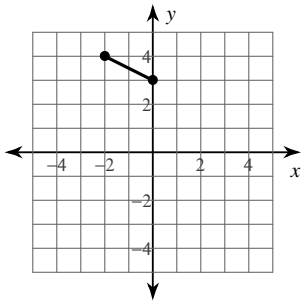
1)



2)



3)



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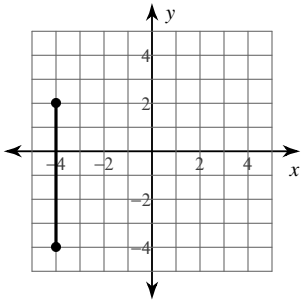
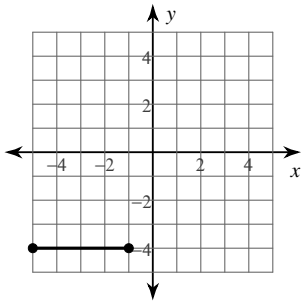
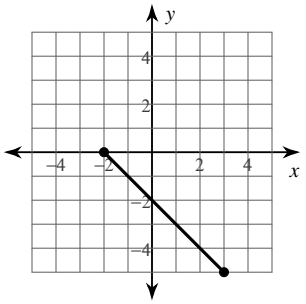


5)



6)



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

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

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

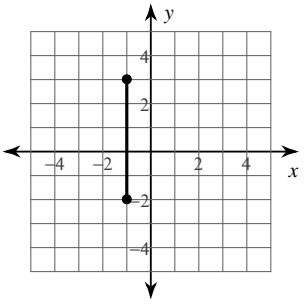
10) $(8, 5)$, $(-1, 3)$

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

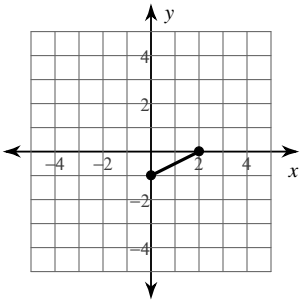
12) $(-6, -10)$, $(-2, -10)$

Find the distance between each pair of points.

13)



14)



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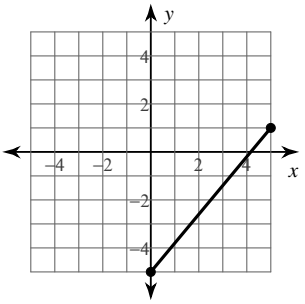
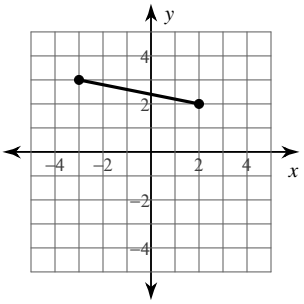


16)



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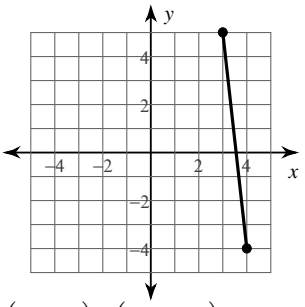
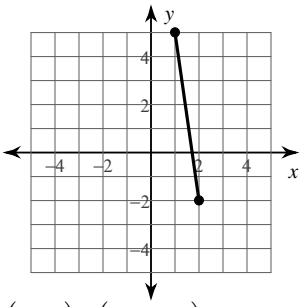


18)



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.

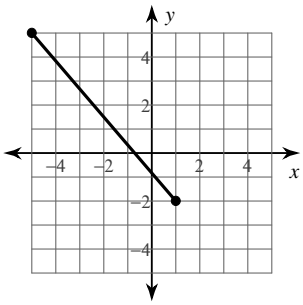
Kuta Software - Infinite Geometry Name_____

The Distance Formula

Date_____ Period____

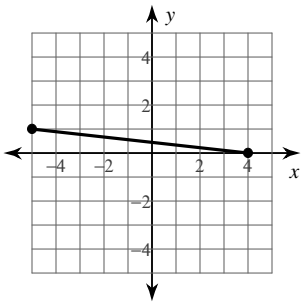
Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1)



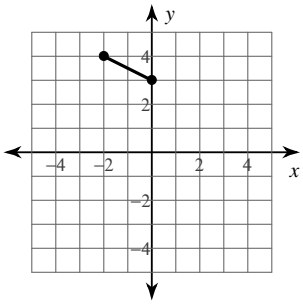
9.2

2)



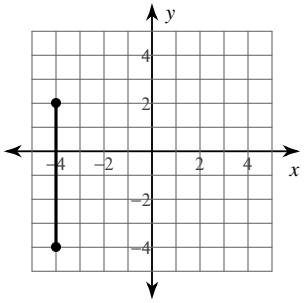
9.1

3)



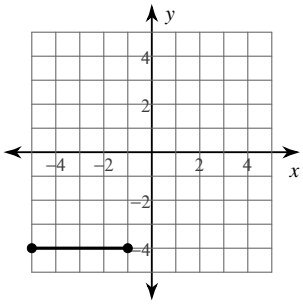
2.2

4)



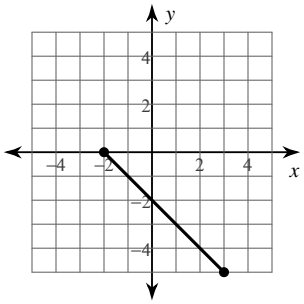
6

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

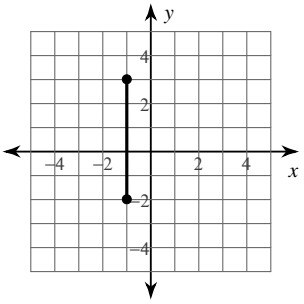
8.2

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

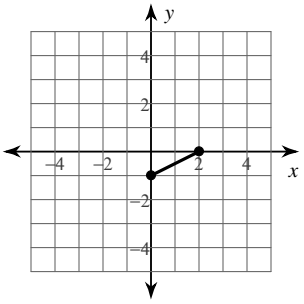
4

Find the distance between each pair of points.

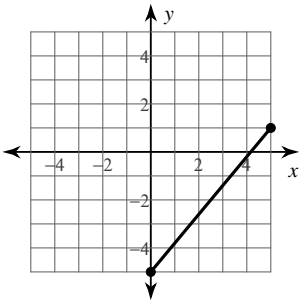
13) 5



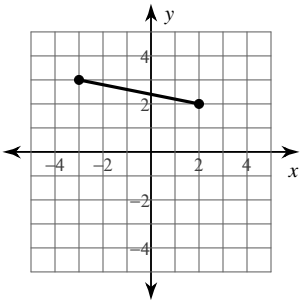
14) $\sqrt{5}$



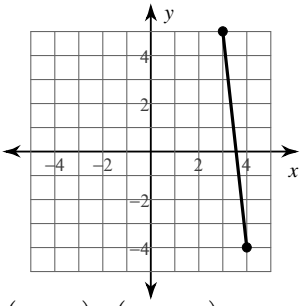
15) $\sqrt{61}$



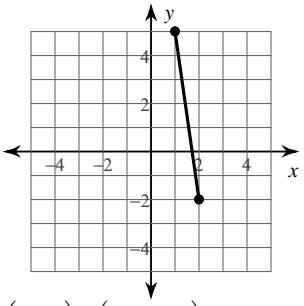
16) $\sqrt{26}$



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