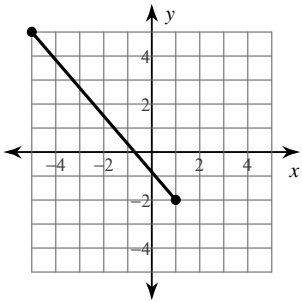


The Distance Formula

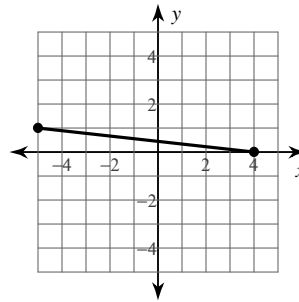
Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

1)



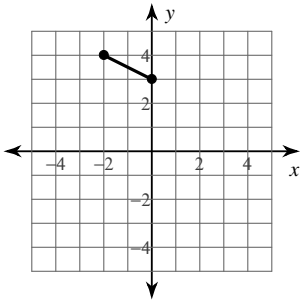
9.2

2)



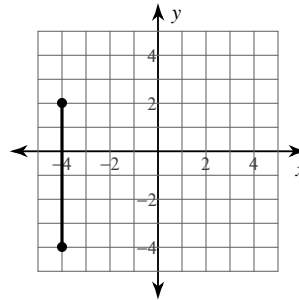
9.1

3)



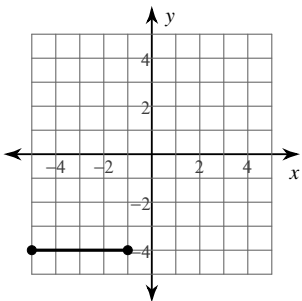
2.2

4)



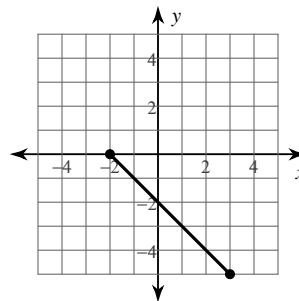
6

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

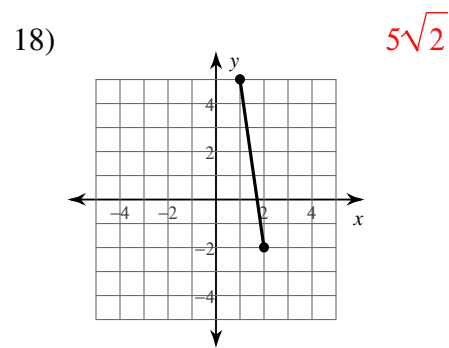
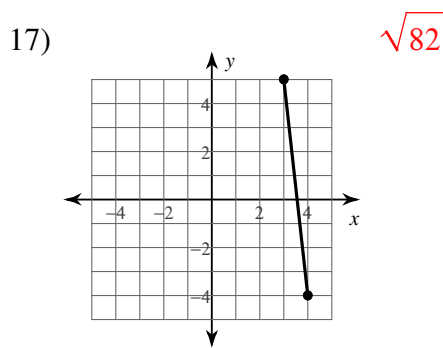
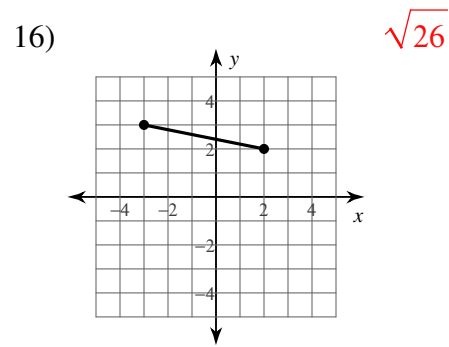
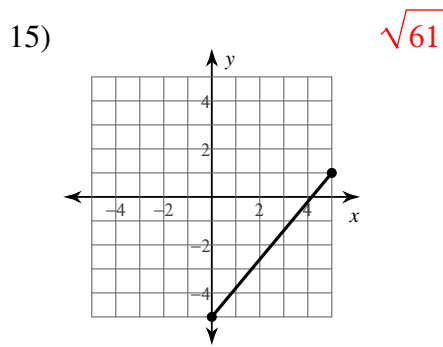
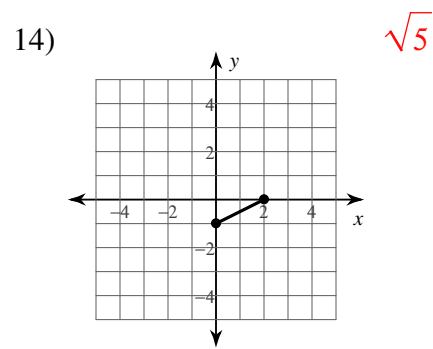
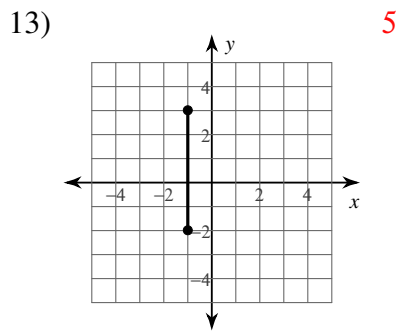
11) $(-10, -7), (-8, 1)$

8.2

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

4

Find the distance between each pair of points.



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.

*Choose points that are not directly vertical or horizontal from $(7, -2)$.

Many answers: All 50 units away

$(-23, 38), (-23, -42), (37, 38), (37, -42)$
 $(47, 28), (47, -32), (-33, 28), (-33, -32)$