Activity 3 Review (21-30)

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

21) \((7, 6), (-10, 0)\)
   A) \(\left( \frac{6}{2}, -5 \right)\)  B) \(\left( -1 \frac{1}{2}, 3 \right)\)  C) \((-27, -6)\)  D) \(\left( 8 \frac{1}{2}, 3 \right)\)

22) \((-5, -7), (0, -8)\)
   A) \(\left( -2 \frac{1}{2}, -7 \frac{1}{2} \right)\)  B) \((-6, -4)\)  C) \(\left( -2 \frac{1}{2}, \frac{1}{2} \right)\)  D) \((5, -9)\)

Find the midpoint of each line segment.

23) \[\begin{array}{c}
\text{(Diagram)}
\end{array}\]
   A) \(\left( -\frac{1}{2}, 2 \right)\)  B) \(\left( \frac{1}{2}, 1 \right)\)  C) None of these  D) \(\left( -2 \frac{1}{2}, 2 \right)\)

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

24) Endpoint: \((2, 2)\), midpoint: \((9, 9)\)
   A) \(\left( -3 \frac{1}{2}, -3 \frac{1}{2} \right)\)  B) \((16, 16)\)  C) None of these  D) \((2, 9)\)

25) Endpoint: \((10, 4)\), midpoint: \((1, 4)\)
   A) \((-8, 4)\)  B) None of these  C) \((8, -1)\)  D) \(\left( 7, 2 \frac{1}{2} \right)\)
Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

26) \( (-4, 2), (-2, 4) \)

A) None of these  B) 3.9  C) 9.2  D) 3.3

27) \( (2, -1), (4, 3) \)

A) None of these  B) 6.7  C) 3  D) 1.7

28) \( (-5, 1), (4, 8) \)

A) 9.1  B) None of these  C) 11.4  D) 4

29) \( (5, -1), (-8, 0) \)

A) 13  B) 3.7  C) 3.2  D) 2.8

30) \( (-5, 2), (-2, -8) \)

A) 3.6  B) 4.1  C) 9.2  D) 10.4