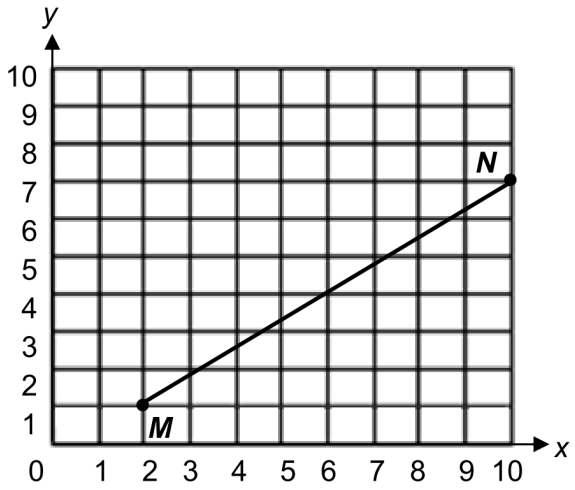
Unit 6 - Distance Formula

Name: _____ **Date:** _____

1. Look at $\overline{MN}$ on the coordinate plane.



What is the distance between the endpoints of $\overline{MN}$?

A. 5 units B. 6 units

C. 8 units D. 10 units

2. Segment ST has endpoints $(6, 2)$, and $(1, 14)$. What is the distance between these two endpoints?

A. 5 units B. 6 units

C. 12 units D. 13 units

3. Segment QR has endpoints at $(-1, -2)$ and $(2, 2)$. What is the distance between these two endpoints?

A. 3 units B. 4 units

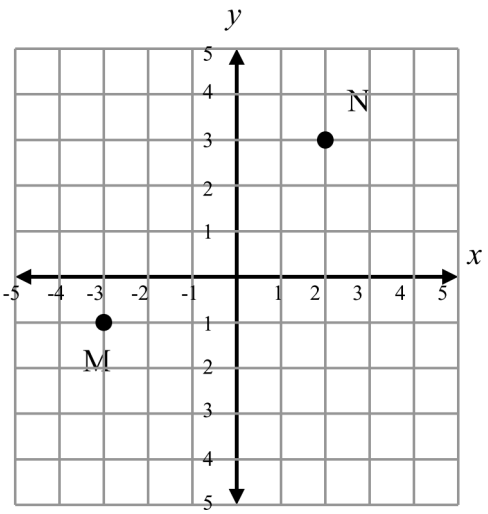
C. 5 units D. 6 units

4. What is the distance between the points $(4, -2)$ and $(-5, 3)$?

A. $D = \sqrt{106}$ B. $D = \sqrt{28}$

C. $D = \sqrt{26}$ D. $D = \sqrt{2}$

5. What is the distance between points M$(-3, -1)$ and N$(2, 3)$ on the graph below?

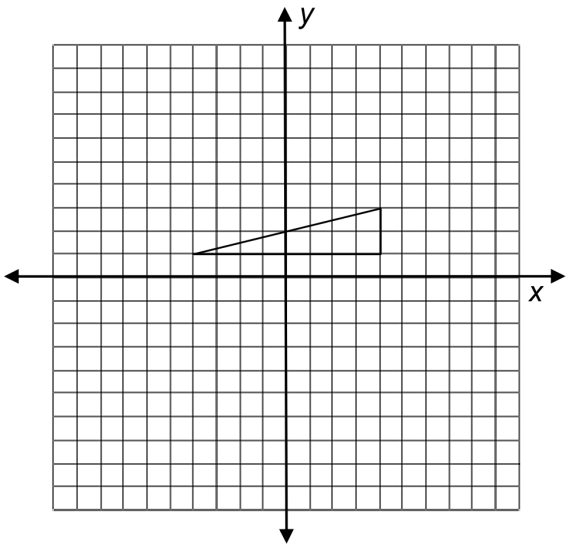


A. $\sqrt{5}$ B. $\sqrt{17}$ C. $\sqrt{41}$ D. $\sqrt{45}$

6. What is the length of the line segment that has endpoints at $(-5, 3)$ and $(4, 5)$?

A. $\sqrt{121}$ B. $\sqrt{85}$ C. $\sqrt{65}$ D. $\sqrt{11}$

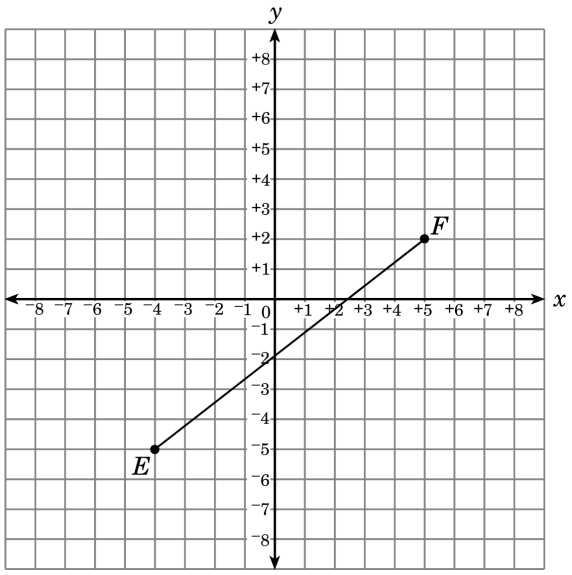
7. The coordinates $(-4, 1)$ and $(4, 3)$ are two vertices of a right triangle on a coordinate plane.



What are the coordinates of the midpoint of the two vertices?

A. $(4, 1)$ B. $(0, 2)$ C. $(2, 0)$ D. $(1, 4)$

8. What is the length of $\overline{EF}$?



A. $\sqrt{10}$ units B. $\sqrt{130}$ units

C. $2\sqrt{34}$ units D. $4\sqrt{34}$ units

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1.
Answer: D

2.
Answer: D

3.
Answer: C

4.
Answer: A

5.
Answer: C

6.
Answer: B

7.
Answer: B

8.
Answer: B