

NAME: _____

P.I. G.G.67: Find the length of a line segment, given its endpoints

1. Which one of the following gives the distance between the numbers 3 and -10 ?

[A] 13 [B] -7 [C] 7 [D] -13

2. Find the distance between the points $(-1, -2)$ and $(-4, -3)$. Round your answer to the nearest tenth.

[A] 3.2 [B] 7.1 [C] 10.0 [D] 4.0

3. What is the distance between the points $(2, 5)$ and $(7, 8)$?

[A] 5.8 [B] 9 [C] 4 [D] 1 [E] 25

4. Find the distance between points $P(-5, 4)$ and $Q(3, 0)$.

[A] $4\sqrt{5}$ [B] $\sqrt{10}$

[C] $3\sqrt{10}$ [D] $2\sqrt{5}$

5. Find the distance between points $P(-1, 2)$ and $Q(3, 5)$.

6. Find the distance between the points $(-3.4, -2.5)$ and $(-5, -1.2)$. Round your answer to the nearest tenth.

7. Marty leaves his house and walks 2 miles due west. He stops at the library and then walks 3 miles due north. How far is Marty from his house? Round your answer to the nearest tenth.

8. One bus is 5 miles east and 2 miles north of the bus terminal. Another bus is 3 miles west and 6 miles south of the terminal. How far apart are the buses?

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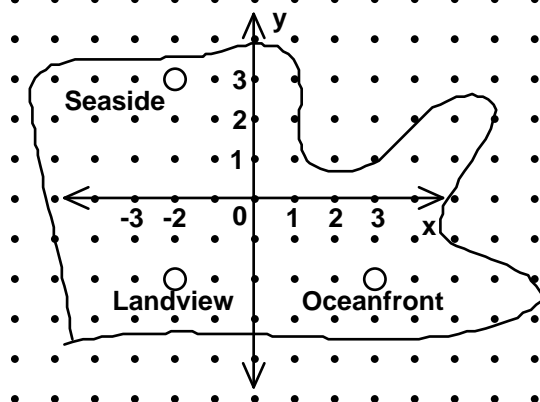
9. Compare the quantities in Column A and Column B.

<u>Column A</u>	<u>Column B</u>
the distance between the points $(3, -2)$ and $(-1, 4)$	the distance between the points $(-3, 2)$ and $(1, -4)$

- [A] The quantity in Column A is greater. [B] The quantity in Column B is greater.
[C] The quantities are equal.
[D] The relationship cannot be determined from the information given.

10. Ory rides his bike 5 miles due east and the 10 miles due north. How far is he from his starting point? Write your answer in the simplest radical form and as a decimal rounded to the nearest tenth.

11. Use the map shown to find the distance from Landview to Seaside. If each unit on the grid represents 5 miles, what is the actual distance?



[1] A

[2] A

[3] A

[4] A

[5] $5\sqrt{1}$

[6] 2.1

[7] about 3.6 miles

[8] about 11.3 miles

[9] C

[10] $5\sqrt{5} \approx 11.2$ miles

[11] 5 units, 25 miles