

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 9 and -13 ?

[A] 4 [B] -4 [C] 22 [D] -22

2. Find the distance between the points $(1, 2)$ and $(4, -5)$. Round your answer to the nearest tenth.

[A] 4.0 [B] 7.6 [C] 5.8 [D] 58.0

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

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

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

[A] $3\sqrt{5}$ [B] 3 [C] $\sqrt{37}$ [D] $\sqrt{53}$

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

6. Find the distance between the points $(-5, 4.1)$ and $(-4, -2.4)$. 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?

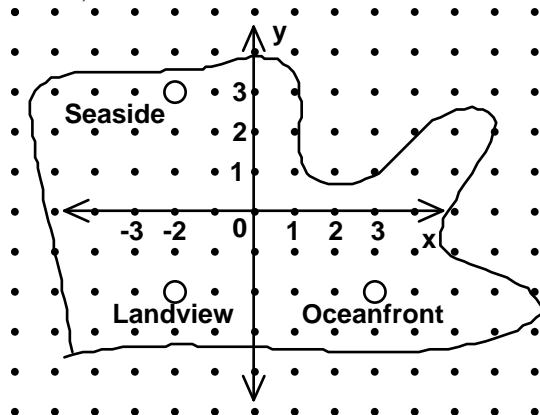
9. Compare the quantities in Column A and Column B.

<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?



Geometry Practice: G.G.67

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[1] C

[2] B

[3] C

[4] D

[5] $\sqrt{17}$

[6] 6.6

[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