

October 6, 2015

EQ: How are the distance formula and the Pythagorean Theorem related?

MCC8.G.8 Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.

Mar 15-1:56 PM

Homework Answers

1. a. 5000 ft.

1. b. 6000 ft.

1. c. 5830 ft.

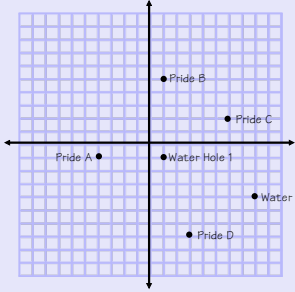
1. d. 6320 ft.

2. a. 12370 ft.

2. b. 11400 ft.

2. c. 6320 ft.

2. d. 5830 ft.



Pride A: Water Hole 1

Pride B: Water Hole 1

Pride C: Water Hole 1

Pride D: Water Hole 2

Mar 15-1:56 PM

Ticket Time!

Mar 23-10:39 AM

If you do not have a graph,
how can you determine the distance?

Use the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

The distance formula is based on Pythagorean Theorem.

Guided Example:

Determine the distance between the points (-2, 5) and (4, 10).

$$d = \sqrt{(4 - (-2))^2 + (10 - 5)^2}$$

$$d = \sqrt{(6)^2 + (5)^2}$$

$$d = \sqrt{36 + 25}$$

$$d = \sqrt{61}$$

$$d = 7.8$$

Mar 15-1:56 PM

You Try!

Find the following distances:

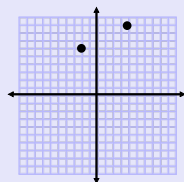
1. (4, 2) and (5, 0)

2. (-1, 1) and (-3, 4)

3. (-4, 5) and (1, 5)

Mar 15-1:56 PM

4. Using Pythagorean Theorem, find the distance between the two points. Prove the distance using the distance formula.



Mar 15-1:56 PM

Homework:
Complete the Worksheet

A cartoon illustration of a man sitting on a beach chair under a palm tree. He is looking towards the viewer with a speech bubble that says "YOU'RE DISTANT TODAY....". The cartoon is set against a light blue background. Text at the top of the cartoon reads "© Original Artist", "Reproduction rights obtainable from", and "www.CartoonStock.com". A vertical search ID "search ID: dha0187" is visible on the right side of the cartoon.

Mar 15-1:56 PM



Oct 4-7:37 PM