

Applications of Systems of Equations NEW

Exercise 1 Typically, a sports track is made up of two straight segments of length q and two semicircular ends of diameter d .



20. Find the diameter and the track if $q = 100$ feet and $d = 100$ feet.
(a) $d = 100$ ft. (b) $d = 100$ ft. (c) $d = 100$ ft. (d) $d = 100$ ft.
21. Write an expression for finding the diameter d if you know the track length q for any given values of q .
(a) $d = 2q$
22. Find the area enclosed by the track if $q = 100$ feet and $d = 100$ feet.
(a) 10000π (b) 10000π (c) 10000π (d) 10000π
23. Write an expression for finding the diameter d if you know the track length q for any given values of q .
(a) $d = 2q$ (b) $d = \frac{1}{2}q$ (c) $d = \frac{1}{2}q$ (d) $d = \frac{1}{2}q$
24. On a rectangular track, an athlete would run 1000 m in one lap. Write the track that encloses about 10,000 m² of space in the world for other sporting events. Based on your knowledge of the geometry of rectangles, write a system of equations that can be used to find the dimensions d and q of the track.

$$2q + d = 1000$$

$$\frac{1}{2}d^2 + qd = 10000$$

25. Solve the equations from the system above for q . Then solve the system by graphing d on the given variables. Describe your solution with a complete sentence.

Equation:

Graph:



$$2q + d = 1000$$

$$q = \frac{1000 - d}{2}$$

$$q = 500 - \frac{d}{2}$$

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Geometry Systems Algebra 2 Hs Mathematics Unit

Lesson 01

Scott C. Dulebohn



Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01:

Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Geometry Systems Algebra 2 Hs Mathematics Unit Lesson 01**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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