

Applications of Systems of Equations (2017)

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Exercise 1: Suppose a square fence is made up of two straight sections of length x and two semicircular ends of diameter y .



- (a) Find the diameter enclosing the track if $x = 20$ feet and $y = 20$ feet.
(a) $20 + 20 + 20 + 20 + 20 + 20 = 100$ feet
- (b) Write an expression for finding the diameter y if you could find the diameter enclosing the track for any given values of x and y .
(b) $y = 2x$
- (c) Find the area enclosed by the track if $x = 20$ feet and $y = 20$ feet.
(c) $20^2 + 20^2 + 20^2 + 20^2 + 20^2 + 20^2 = 600$ ft² (600 ft² is incorrect here)
- (d) Write an expression for finding the diameter y if you could find the area of the track for any given values of x and y .
(d) $20^2 + 20^2 + 20^2 + 20^2 + 20^2 + 20^2 = 600$
- (e) On a rectangular track, an athlete would run 400 m in one lap. Assume the track that encloses about 4,000 m² of space in the world for other swimming tracks. Based on your knowledge of the geometry of circles, write a system of equations that can be used to find the dimensions x and y of the track.

$$\begin{aligned} 2x + 2y &= 400 \\ \pi x^2 + \pi y^2 &= 4000 \end{aligned}$$

- (f) Solve the equations from the system above for y . Then solve the system by graphing x on the given variables. Describe your solution with a complete sentence.

Equation:



$$\begin{aligned} 2x + 2y &= 400 \\ \pi x^2 + \pi y^2 &= 4000 \end{aligned}$$

Solution:

The dimensions of the rectangular track would be 20 m and 20 m, and the length of the two semicircular ends would be 40 m.

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Mathematics Unit 12

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