

Applications of Systems of Equations (20/1)

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Exercise 1: A system of two cylinders of equal length is shown in the figure below.



- 1) Write the formulas for the areas of $r = 20$ cm and $r = 10$ cm.
(Surface) = $2 \cdot \text{Surface} = 2 \cdot (\pi r^2 + 2\pi r h)$
- 2) Write an expression for forming that shows how you would find the surface around the base for any given value of h and r .
Area = $2\pi r^2$
- 3) Write the area enclosed by the radii $r = 20$ cm and $r = 10$ cm.
(Area) $2\pi r^2 = \pi (20)^2 - \pi (10)^2 = 300\pi$ cm²
- 4) Write an expression for forming that shows how you would find the area of the base for any given value of h and r .
Surface = $2\pi r^2 + \frac{2\pi r^2}{h} + 2\pi r h$
- 5) On a rectangular base, an object would not fit in it over the Area the base that enclosed about 4000 cm² of space in the ground for other supporting objects.
 Showed an area enclosed in the ground, system of systems of equations that can be used to find the dimensions r and h of both objects.

$$2\pi r^2 = 4000$$

$$\frac{2\pi r^2}{h} + 2\pi r h = 4000$$

6) Solve the equations from the system above for r . Then solve the system by graphing h on the given variables. Indicate your answer with a complete sentence.

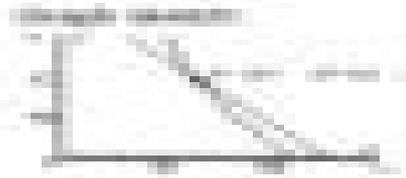
Equation:

$$r = \sqrt{\frac{2000}{\pi}}$$

$$r = \sqrt{\frac{2000}{3.14}}$$

$$r = \sqrt{636.625}$$

$$r = 25.23$$



Radius (approximate)
 The diameter of all the dimensions will provide the value of r cm, and the height h of the height would provide the value of h cm.

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