

Applications of Systems of Equations (20/1)

Date: _____
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Exercise 1: A system of two cylinders of the same diameter is shown in the figure to the right. The cylinders have the same length h .



- 1) Write the formulas for the areas of $a = 20$ mm and $a = 20$ mm.
(radius) $r = 10$ (area) $A = \pi r^2 = 100\pi$ mm²
- 2) Write an expression for the area of the cylinder. You should find the diameter around the base for any given value of h and a .
Area = $2\pi a h$
- 3) Write the area enclosed by the circle of $a = 20$ mm and $a = 20$ mm.
(Area) $A = \pi r^2 = \pi (10)^2 = 100\pi$ mm² (Area) $A = \pi r^2 = 100\pi$ mm²
- 4) Write an expression for the area of the cylinder. You should find the area of the base for any given value of h and a .

$$\text{Area} = \pi a^2 + \frac{2\pi a^2 h}{h} = \pi a^2$$

- 5) On a rectangular block, an object would not be able to rest. Write the area of the base of the object. The area of the base of the object is 100π mm². The area of the base of the object is 100π mm².
 Show that you can determine the dimensions of the object by solving a system of equations that can be used to find the dimensions of the object.

$$a^2 = \pi a^2 = 100\pi$$

$$\frac{2\pi a^2 h}{h} = \pi a^2 = 100\pi$$

- 6) Solve the equations from the system above for a . Then solve the system by graphing a on the given Cartesian coordinate grid below with a straight line.

Equation:

$$a^2 = 100\pi$$

$$a = \sqrt{100\pi}$$

$$a = 10\sqrt{\pi}$$

$$a = 10\sqrt{\pi}$$

Graph Equation:

The diameter of the cylinder is $10\sqrt{\pi}$ mm, and the length of the cylinder is $10\sqrt{\pi}$ mm.

Graph equation:



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ML Yell



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