

4.4b Modeling and Optimization

Designing a Can

You have been asked to design a one-liter oil can shaped as a right circular cylinder. What dimensions will use the least material?

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A cylindrical can holds a fixed volume. Find the ratio of height to radius for the can with the least surface area.

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A cylinder is inscribed in a cone of height 10 cm and radius of 5 cm. Find the volume of the largest cylinder.

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