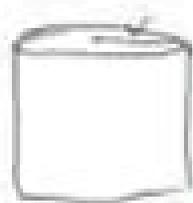


## AP Calculus – Optimization – The Soda Can

A new soda can is going to be made to hold 16 fluid ounces. Find the dimensions that will minimize the amount of material used in its construction assuming that the thickness of the material is uniform. Note that 16 fluid ounces = 28.875 in<sup>3</sup>.



$$V = \pi r^2 h \quad SA = 2\pi r^2 + 2\pi r h$$

$$28.875 = \pi r^2 h$$

$$\frac{28.875}{\pi r^2} = h$$

$$SA = 2\pi r^2 + 2\pi r \left( \frac{28.875}{\pi r^2} \right) + 2\pi r^2$$

$$S(r) = \frac{57.75}{r} + 2\pi r^2$$

$$S'(r) = -\frac{57.75}{r^2} + 4\pi r = 0$$

$$4\pi r^3 = \frac{57.75}{r^2}$$

$$r^3 = \frac{57.75}{4\pi}$$

$$\left. \begin{array}{l} r = 1.663 \\ h = 3.325 \end{array} \right\} \underline{2r = h}$$

Generalize

$$\frac{dS}{dr} = 2\pi \left( r \frac{dh}{dr} + h \frac{dr}{dr} \right) + 4\pi r \frac{dr}{dr}$$

$$\frac{dS}{dr} = 4\pi r + 2\pi r \frac{dh}{dr} + 2\pi h$$

$$V = \pi r^2 h$$

$$\frac{dV}{dr} = \pi \left( r^2 \frac{dh}{dr} + 2r h \frac{dr}{dr} \right)$$

# Ap Calculus Optimization

**Guillaume Favre**



## **Ap Calculus Optimization:**

## **Ap Calculus Optimization** 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 power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Ap Calculus Optimization**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact 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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