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Volumes via Calculus

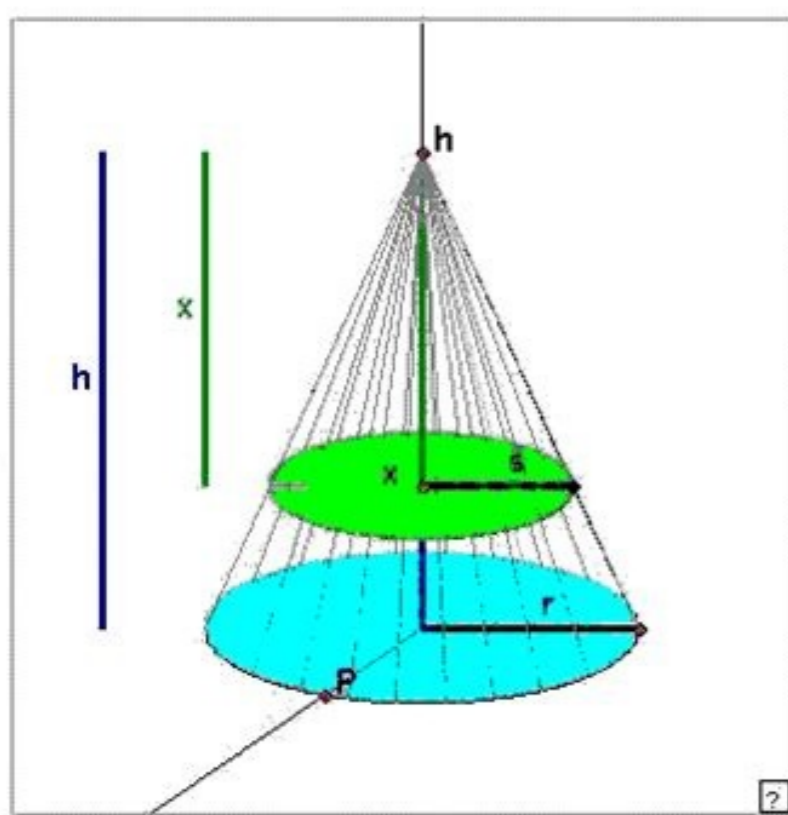
From http://www.mph.net/coelsner/calapps/cone_ex.htm

Charles E. Oelsner
Manlius Pebble Hill School
DeWitt, New York

Based upon the illustration provided, justify each step

in this derivation of the formula for the volume of a cone.

$$\begin{aligned} \frac{s}{r} &= \frac{x}{h} \\ s &= \frac{xr}{h} \\ \pi s^2 &= \pi \left(\frac{xr}{h}\right)^2 \\ Vol &= \int_0^h \pi s^2 dx \\ &= \int_0^h \pi \left(\frac{xr}{h}\right)^2 dx \\ &= \frac{\pi r^2}{h^2} \int_0^h x^2 dx \\ &= \frac{\pi r^2}{h^2} \left[\frac{x^3}{3}\right]_0^h \\ &= \frac{\pi r^2 h}{3} \end{aligned}$$

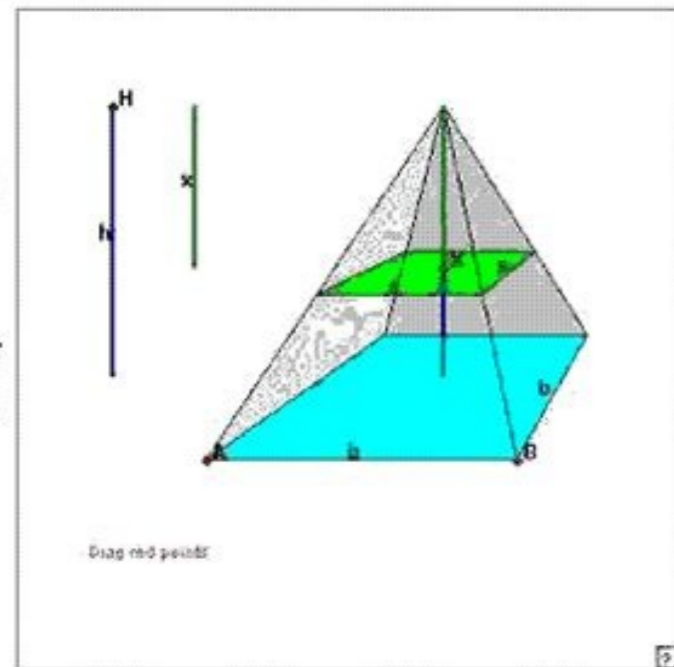


When you understand this derivation, try this CHALLENGE.

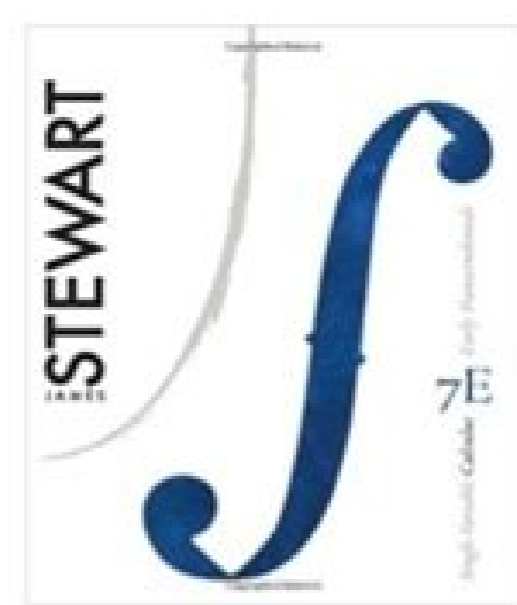
PYRAMID CHALLENGE

Derive a formula for the volume of the pyramid with height h and a square base with all sides of length b.

You can adjust the height of the pyramid by dragging the point H on the slider at the left. You can move the cross-section by dragging the point X on the altitude of the pyramid.



Single Variable Calculus: Early Transcendentals, 7th Edition



DIE
PHILOSOPHIE DER FREIHEIT.

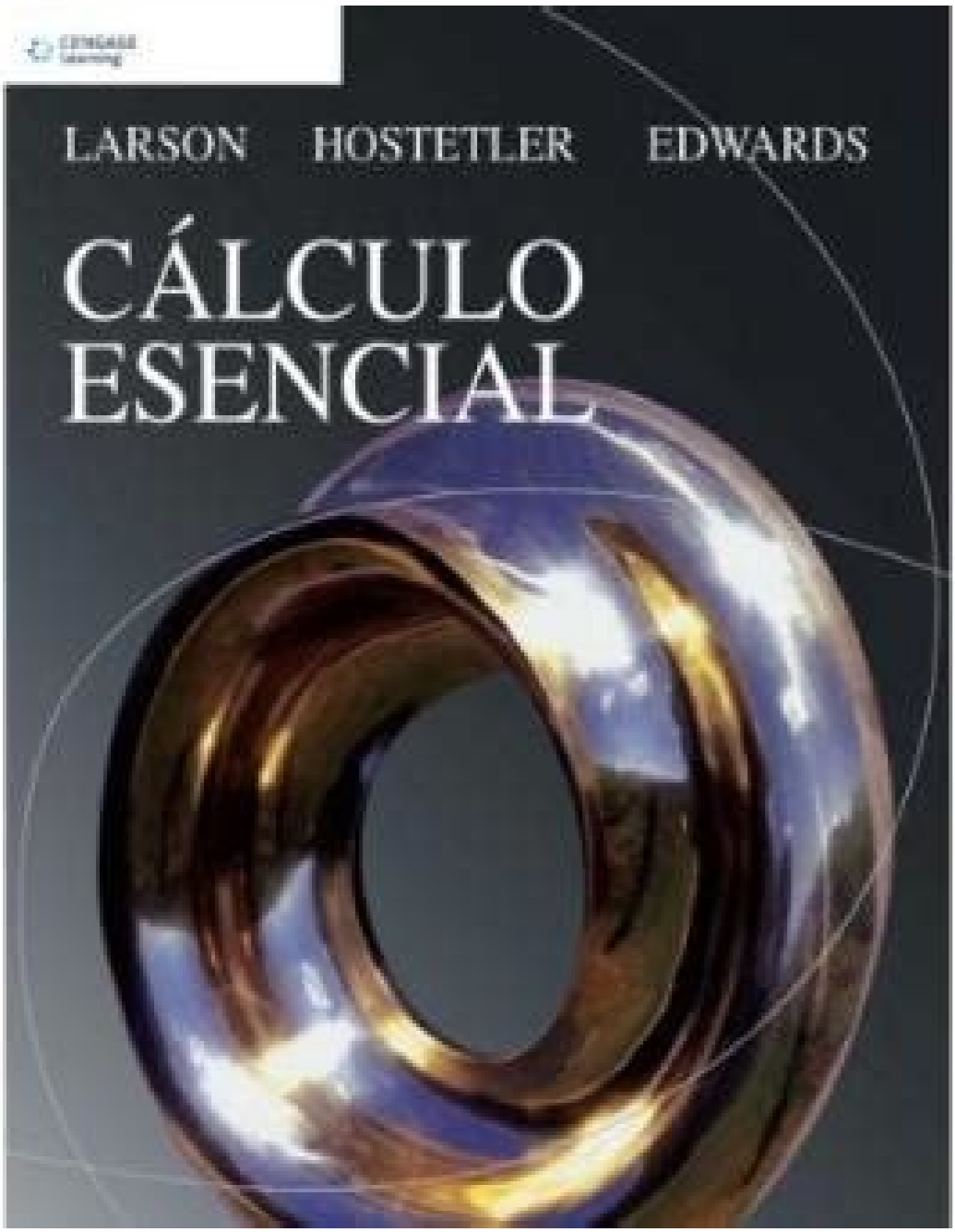
GRUNDZÜGE
EINER
MODERNEN WELTANSCHAUUNG.

VON
DR. RUDOLF STEINER.

Beobachtungs-Resultate nach natur-
wissenschaftlicher Methode.



BERLIN.
VERLAG VON EMIL FELBER.
1894.



He mainly advocated the path of jñāna yoga with an emphasis on the practice of self-enquiry. Visit infolearners to download more pdf books... If you are author/publisher or own the copyright of this documents, please report to us by using this DMCA report form. Advanced embedding details, examples, and help! You're Reading a Free Preview Pages 11 to 17 are not shown in this preview. Collegelearners is where i got the copy i currently use. The authors emphasize conceptual understanding and problem-solving ability, which has been shown to help students succeed in COMPUTING AND SAVING FOR COLLEGE. The component can be used in any ASP.NET web application, either C# or Visual Basic. Most scientific and engineering applications are done through differential calculus. 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